

M0925.70094US01
Polymers with High Internal Free Volume
Inventors: Timothy M. Swager, et al.
Express Mail Label No.: EV292458943US
Date of Deposit: 1/26/04

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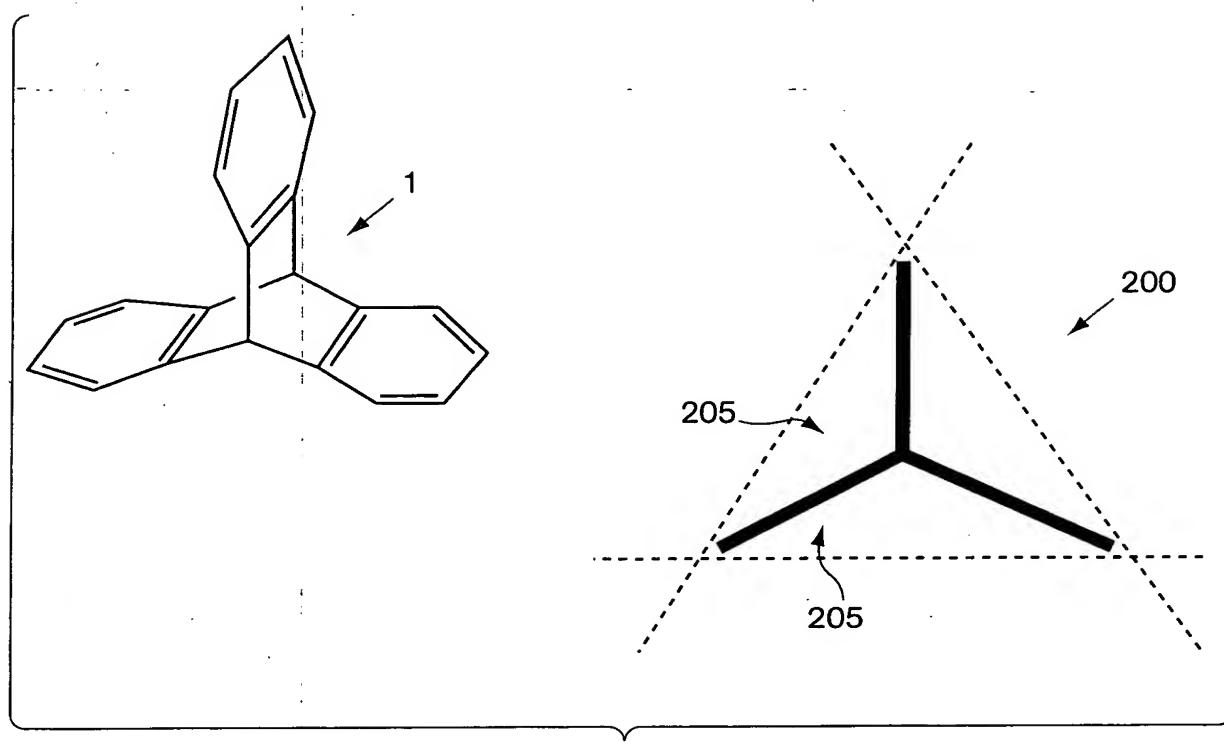


Fig. 1A
(PRIOR ART)

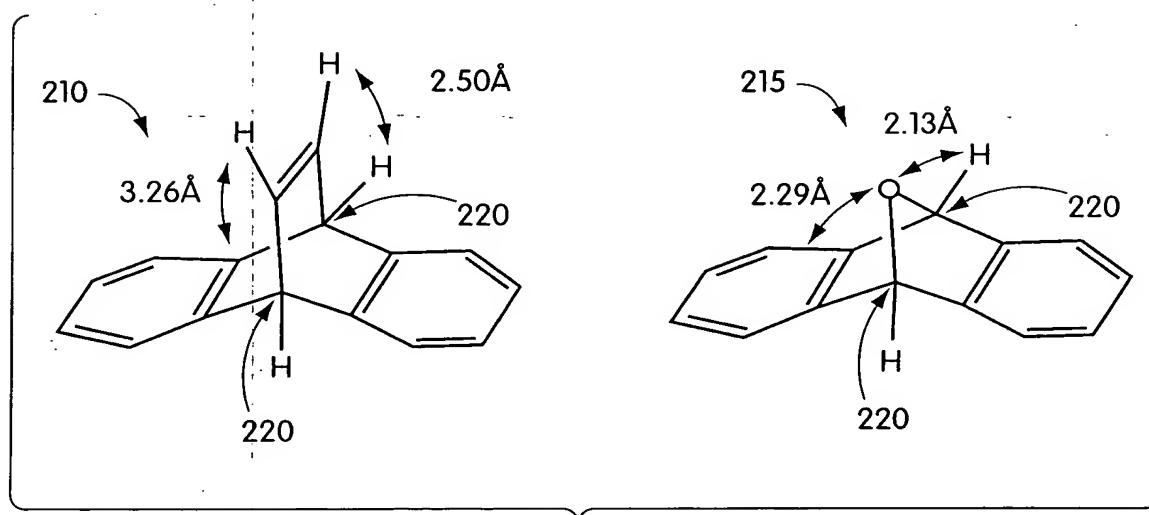


Fig. 1B
(PRIOR ART)

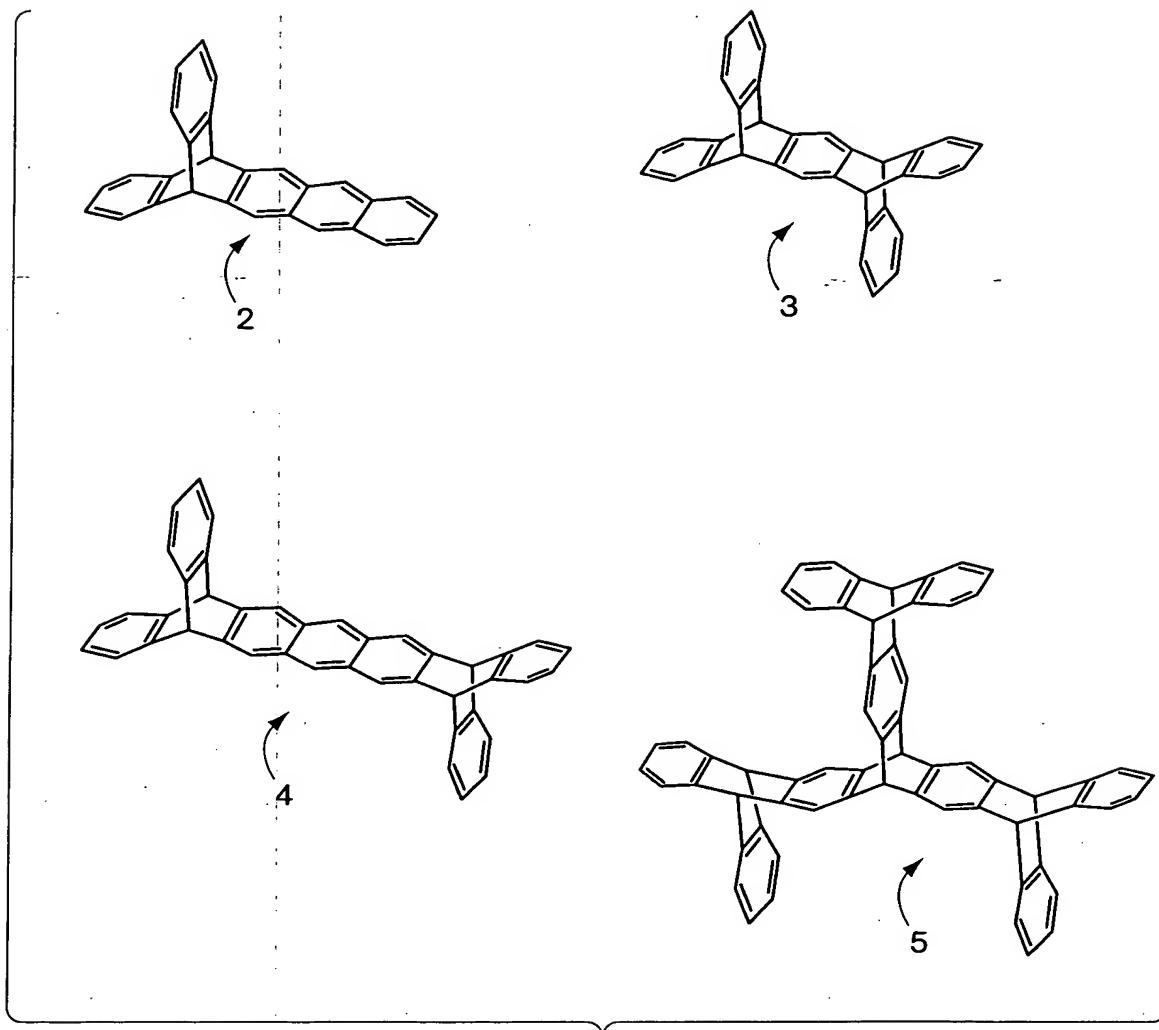
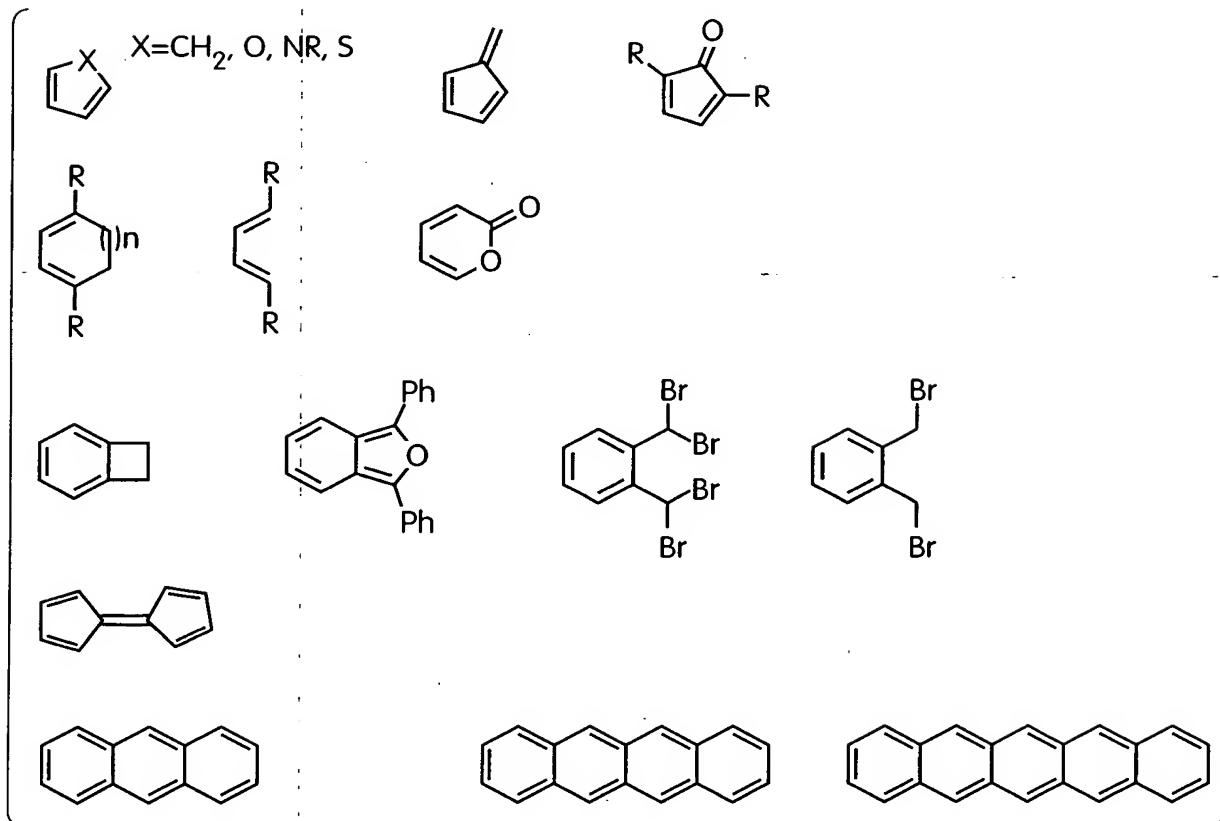


Fig. 1C
(PRIOR ART)



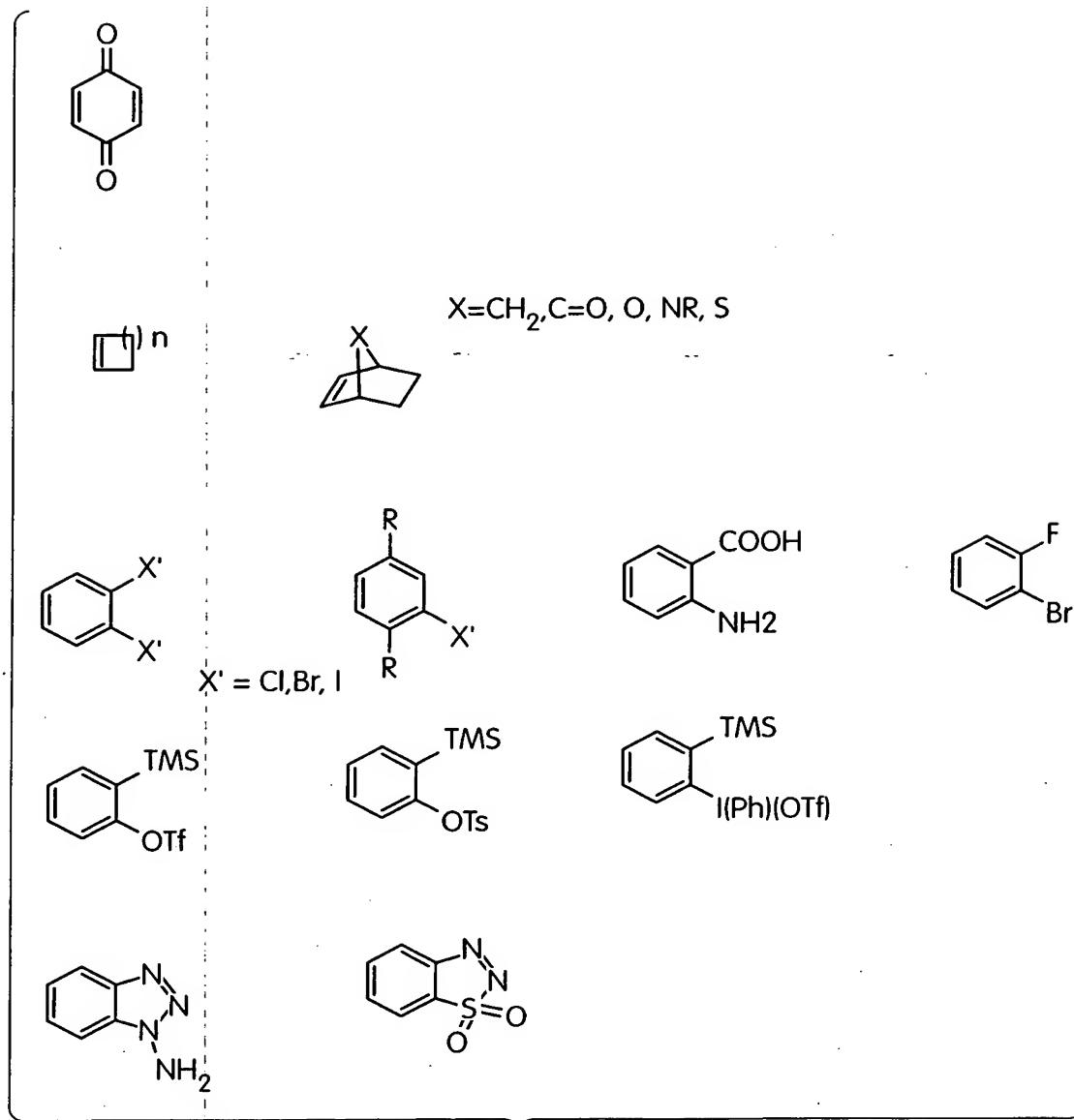


Fig. 1F

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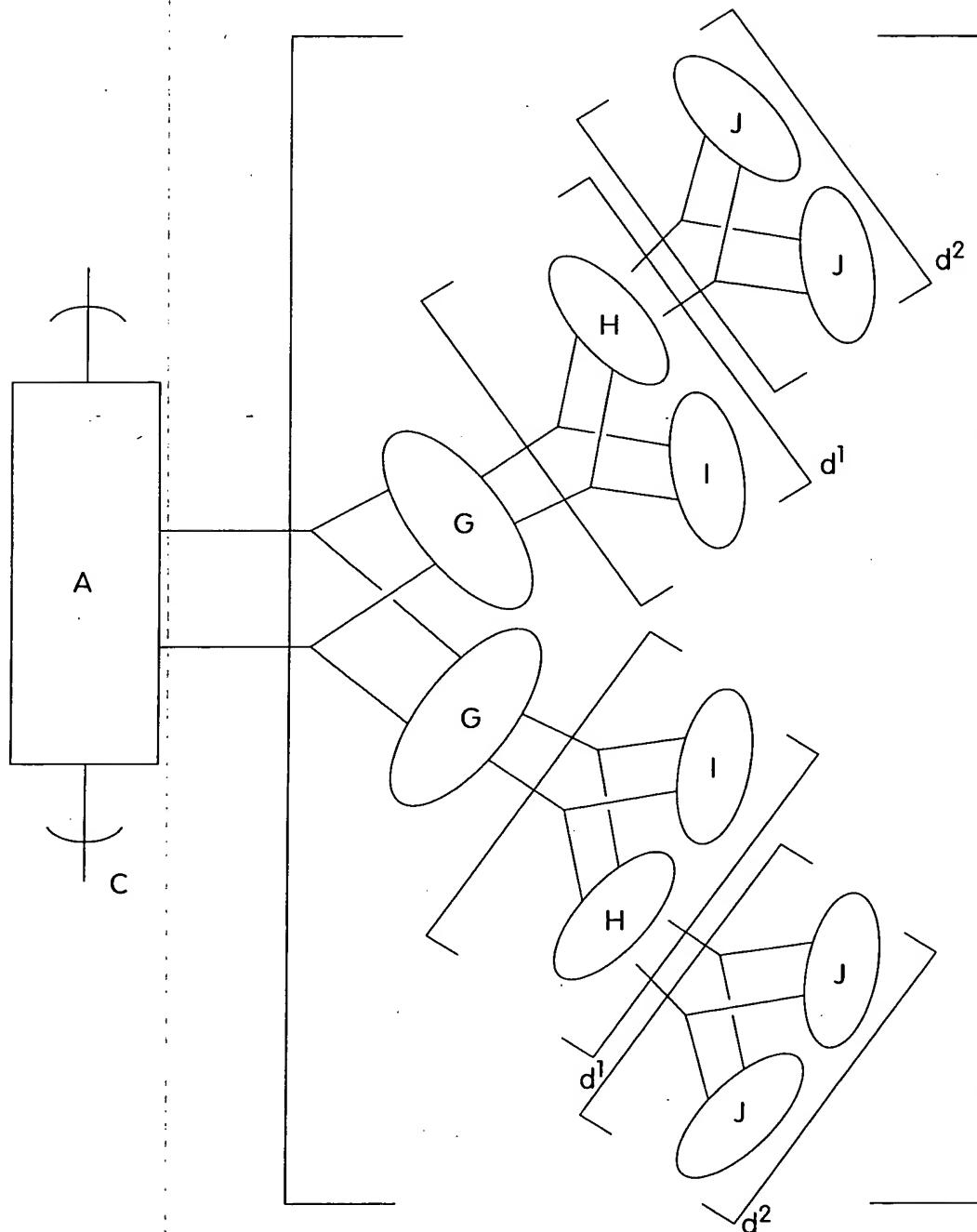


Fig. 1G

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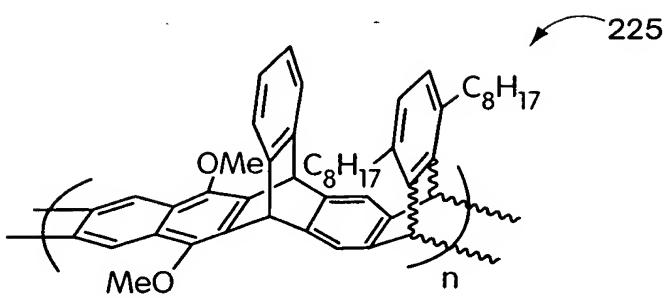


Fig. 1H

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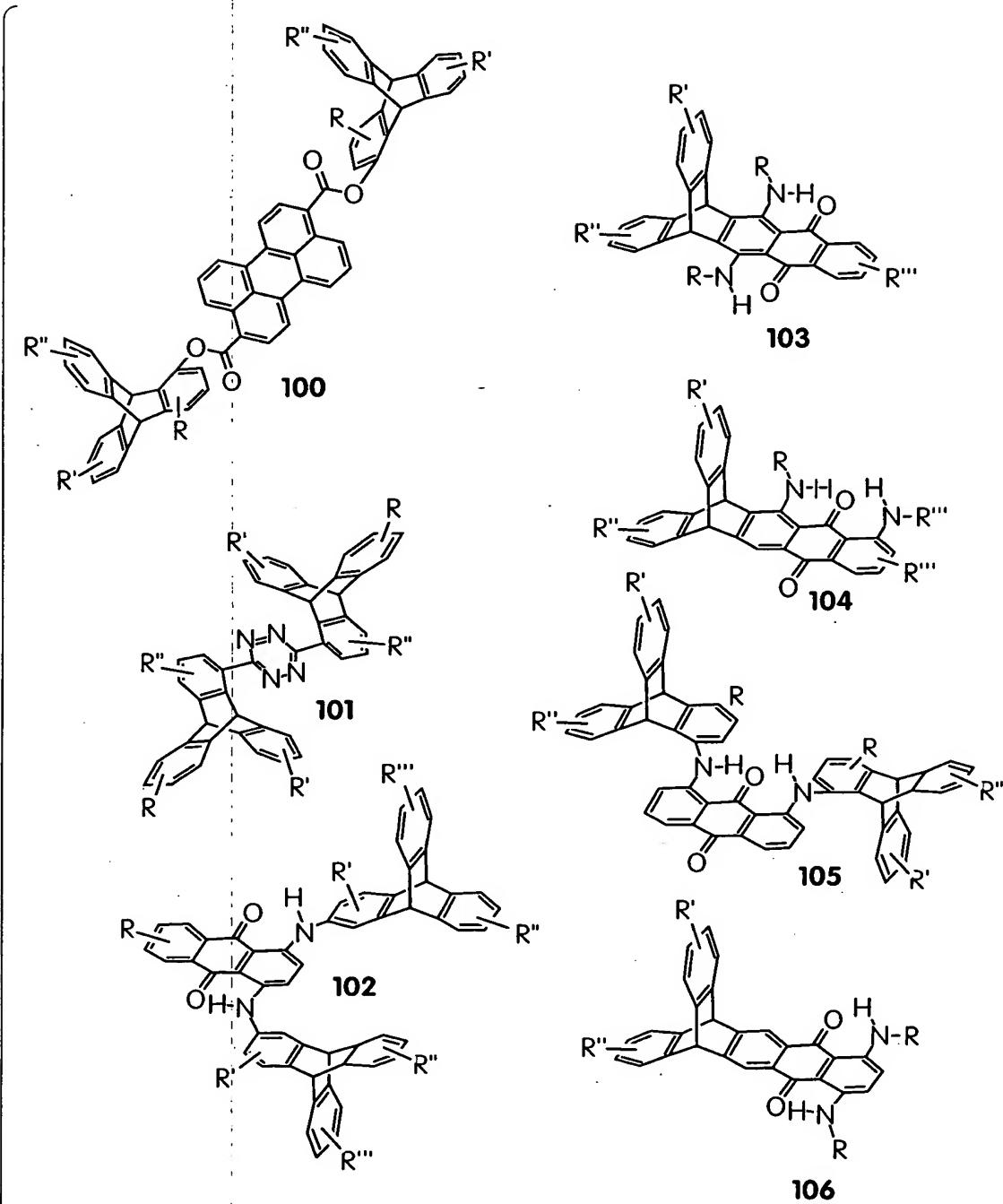


Fig. 1J

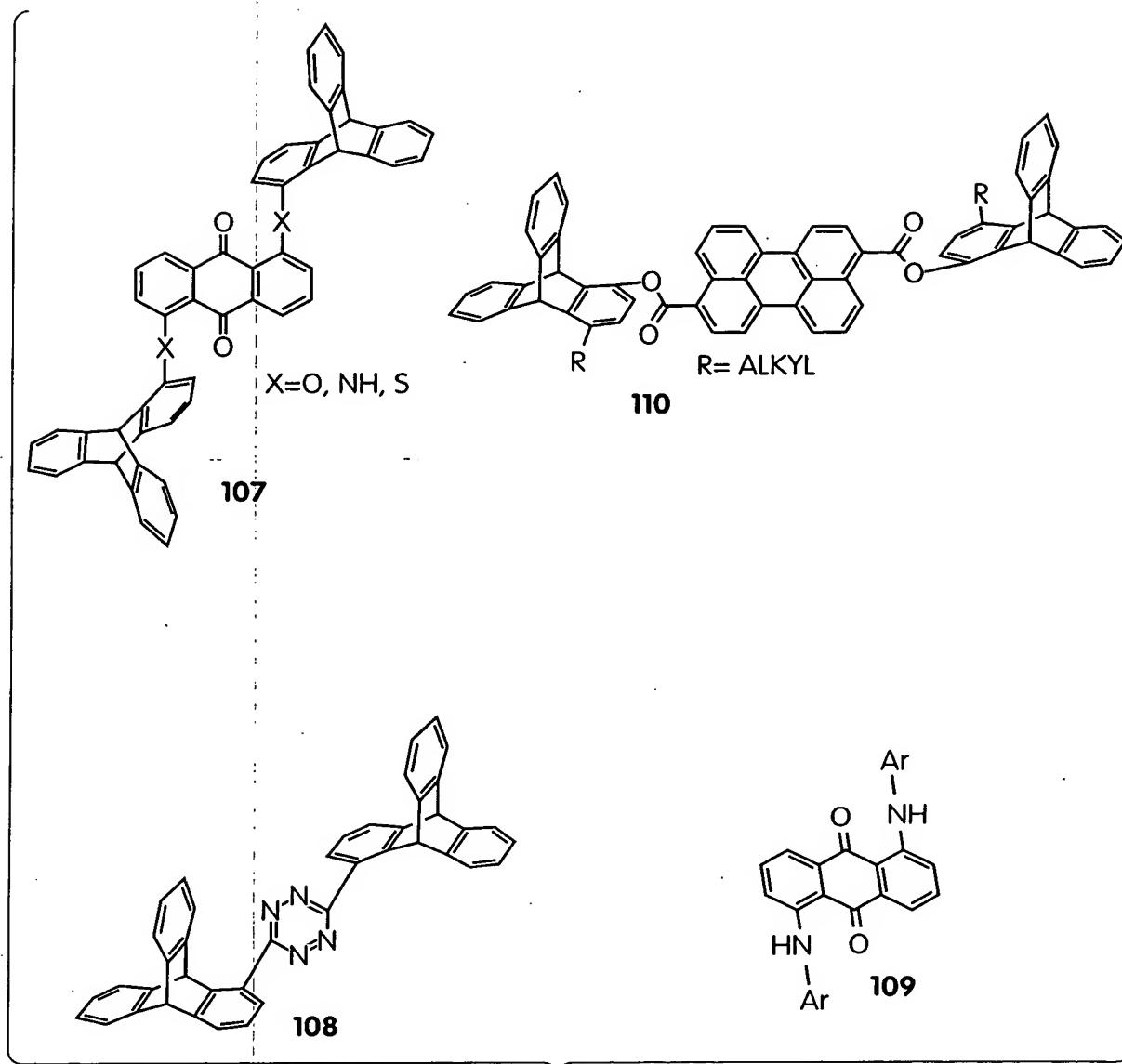


Fig. 1K

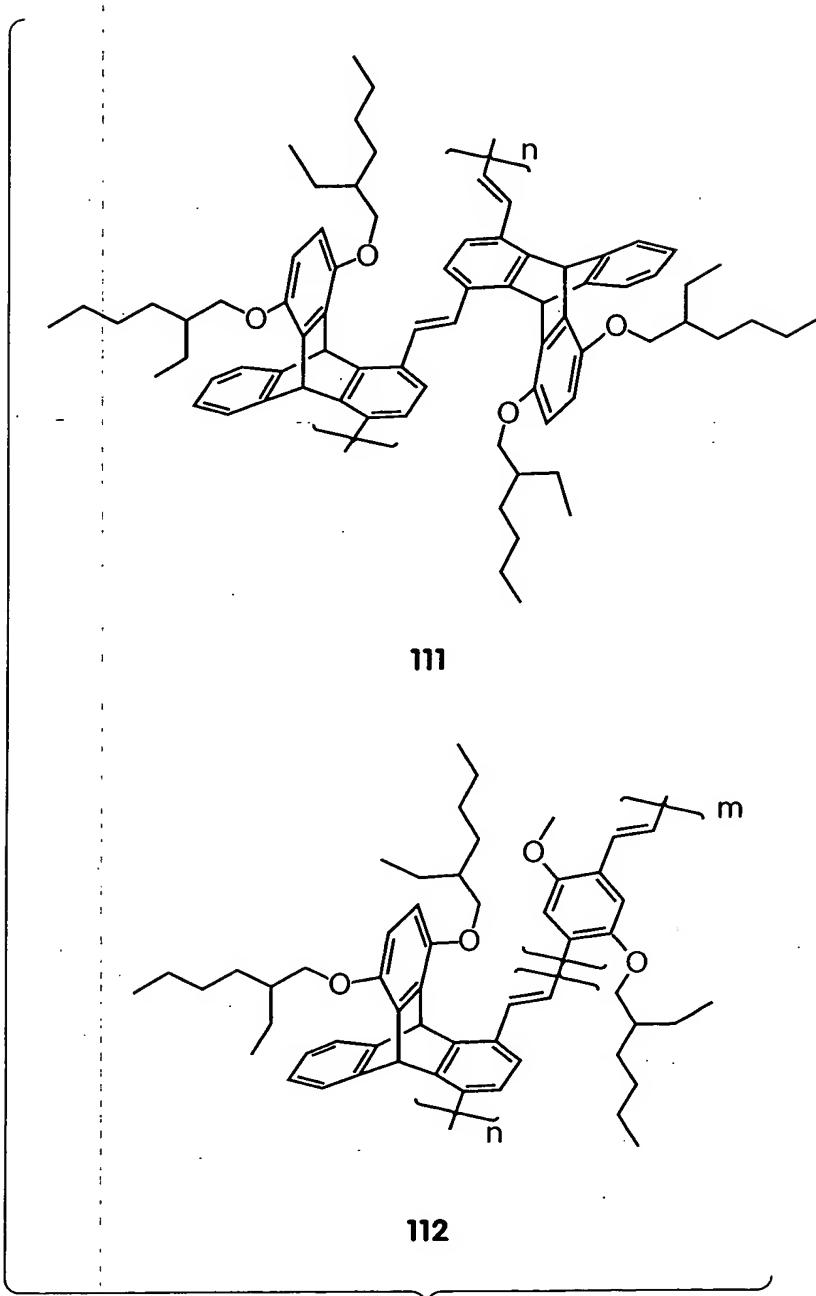


Fig. 1L

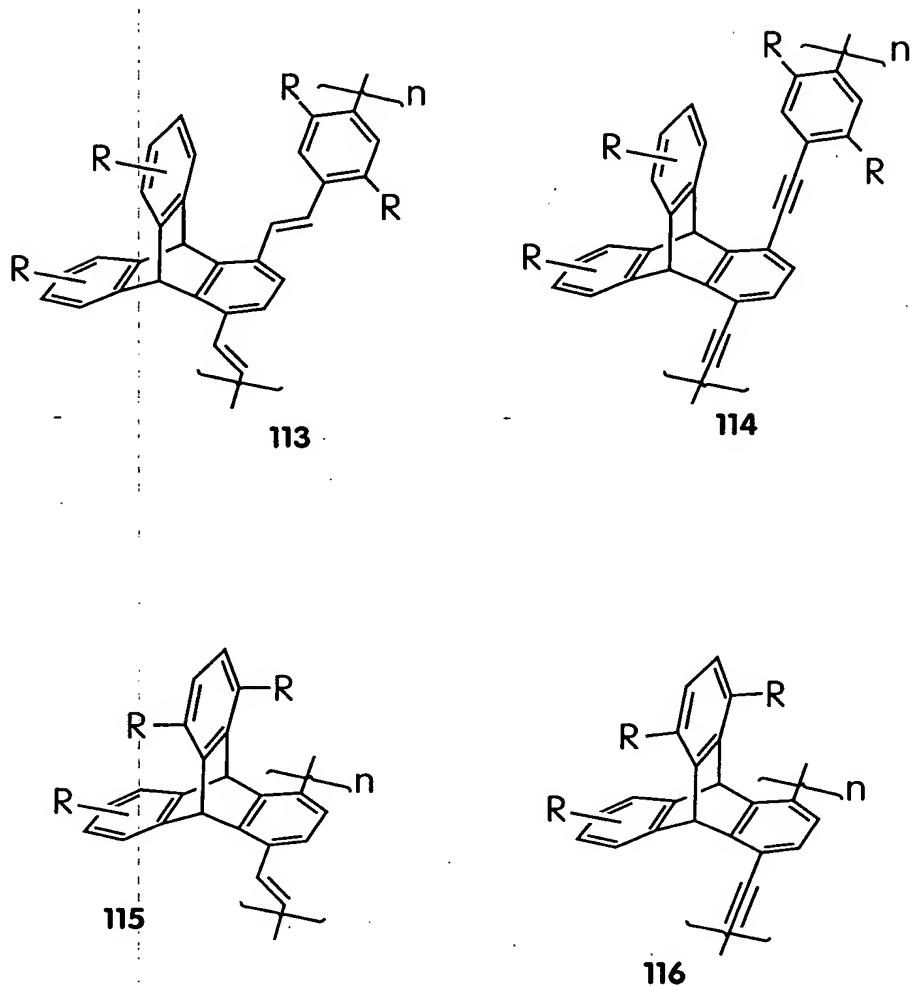


Fig. 1M

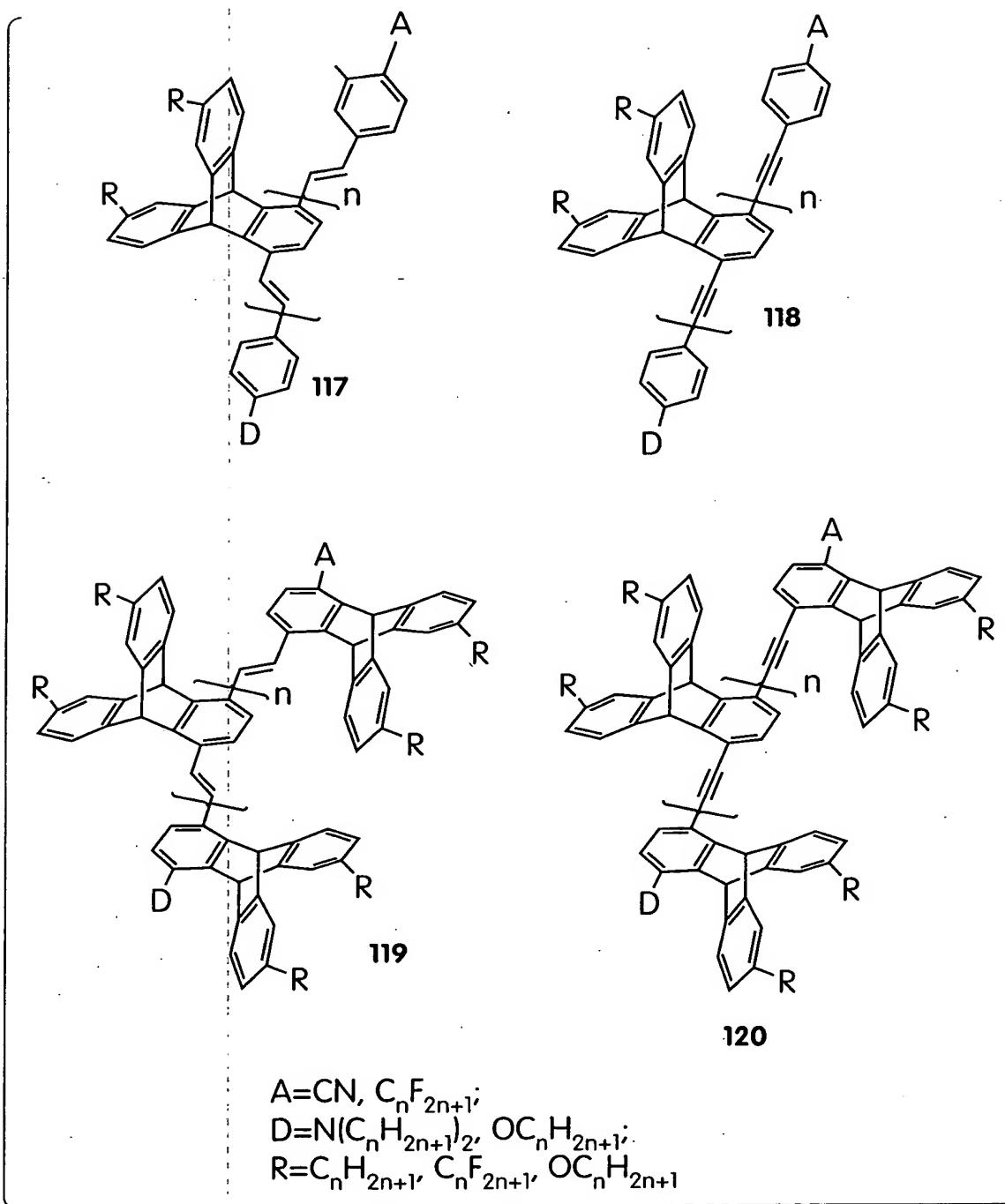


Fig. 1N

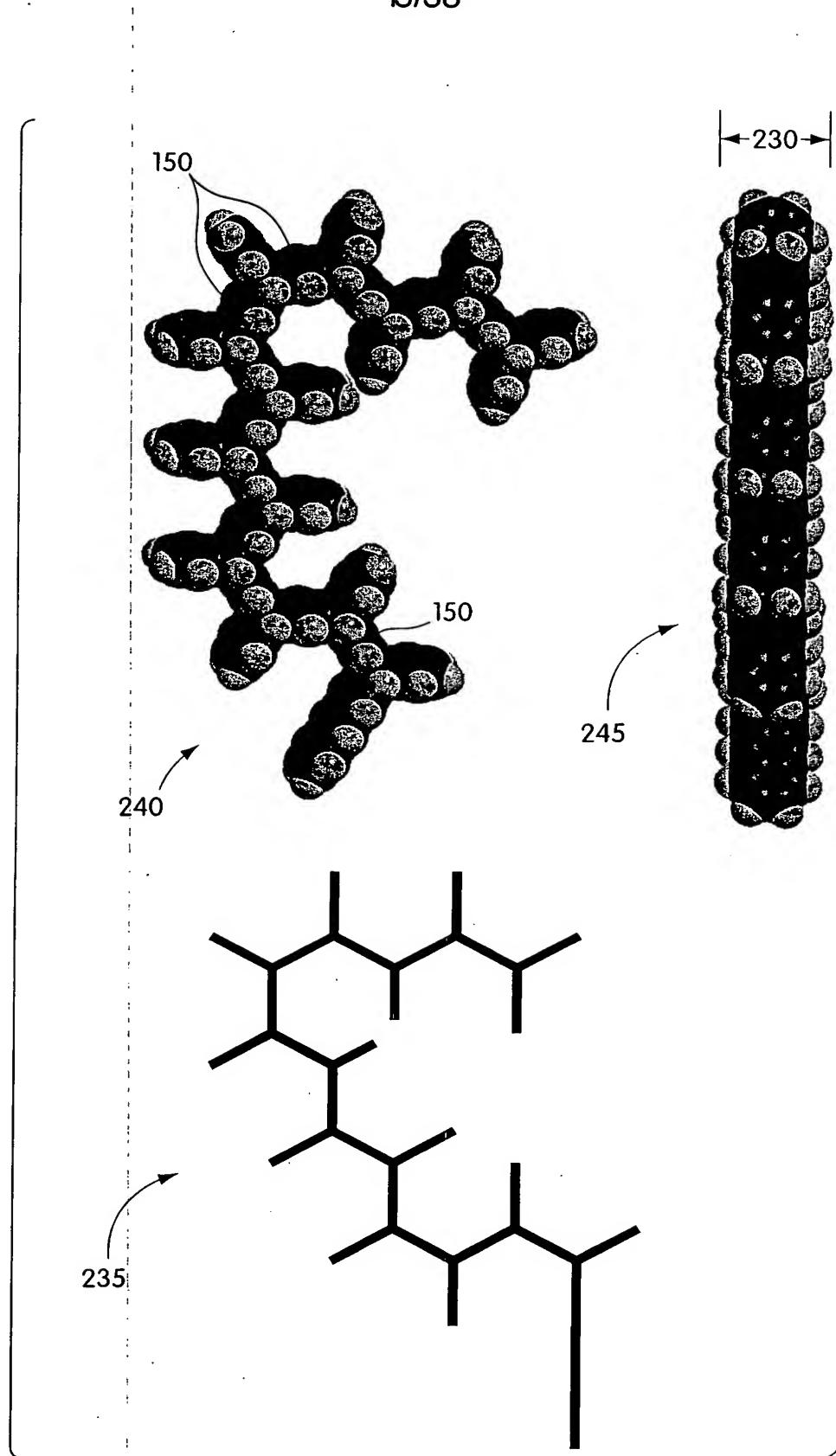


Fig. 2

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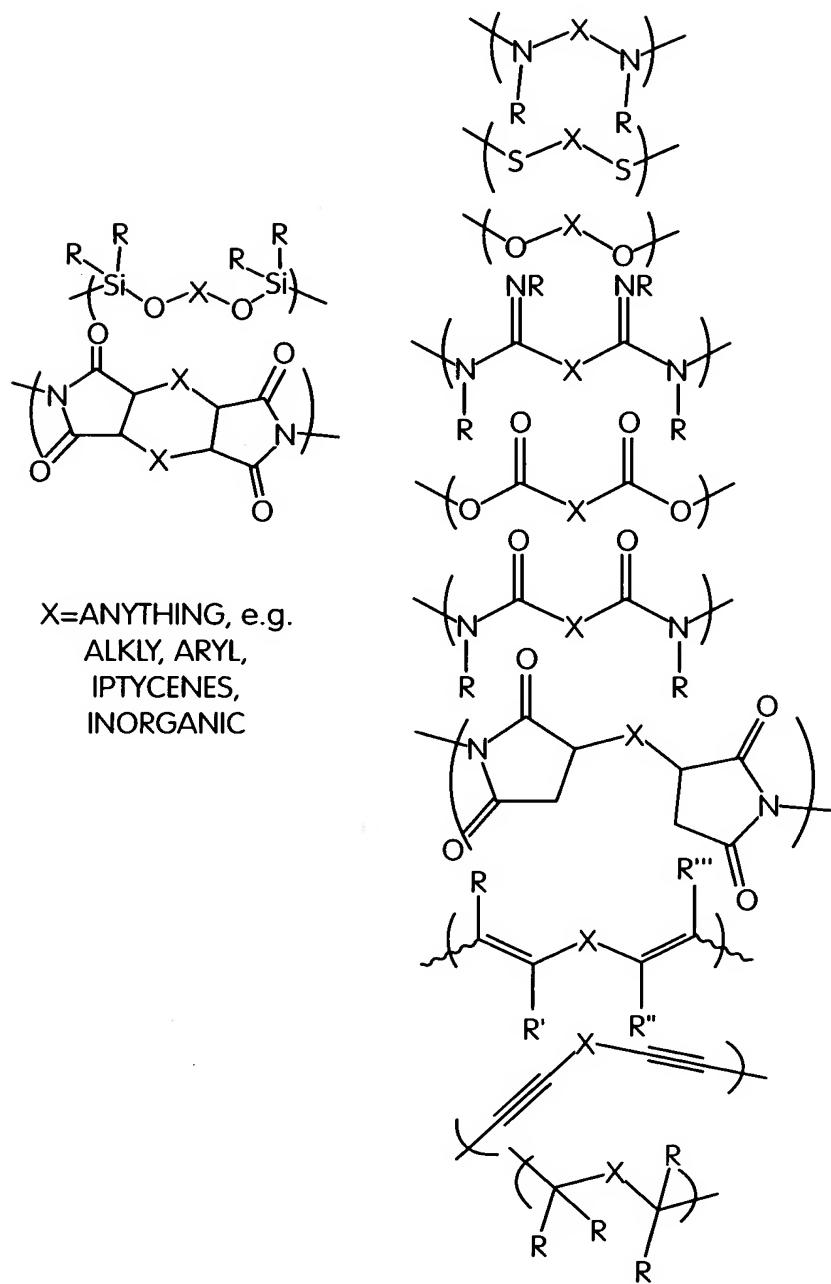


Fig. 2A

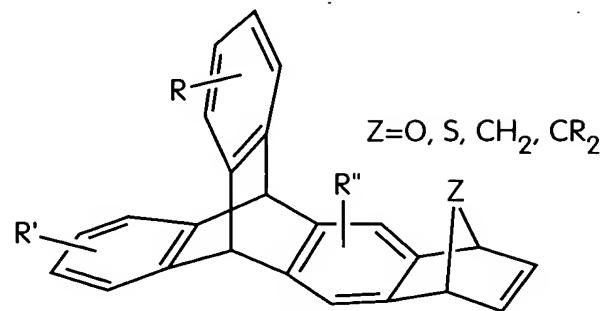


Fig. 2B

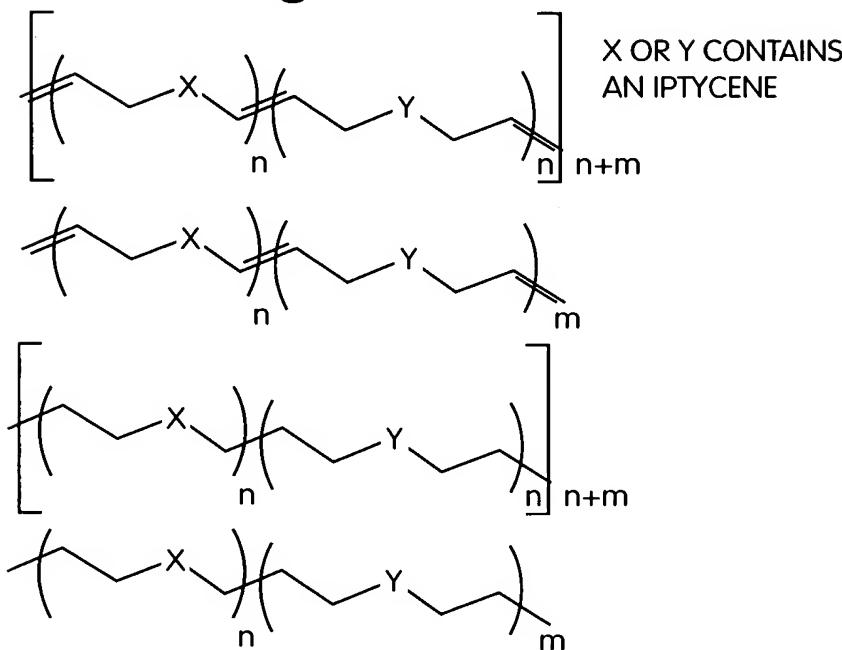
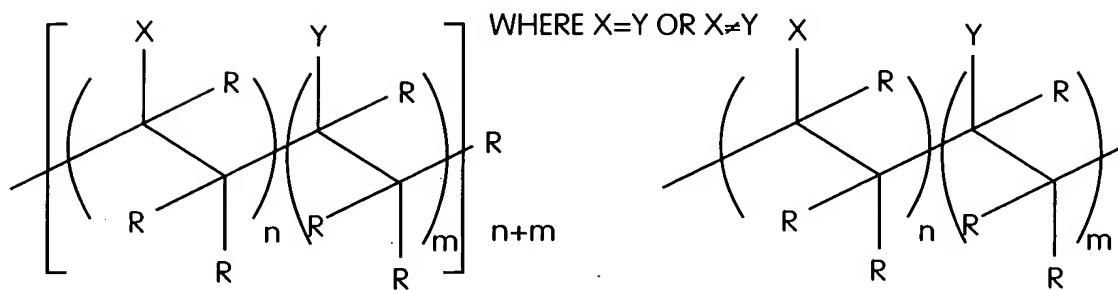


Fig. 2C



IF X=Y, THEN POLYMER MAY BE ATACTIC,
 ISOTACTIC OR SYNDIOTACTIC
 IF X \neq Y, THEN EACH BLOCK MAY BE ATACTIC,
 ISOTACTIC OR SYNDIOTACTIC
 R = FUNCTIONALIZED IPTYCENE

Fig. 2D

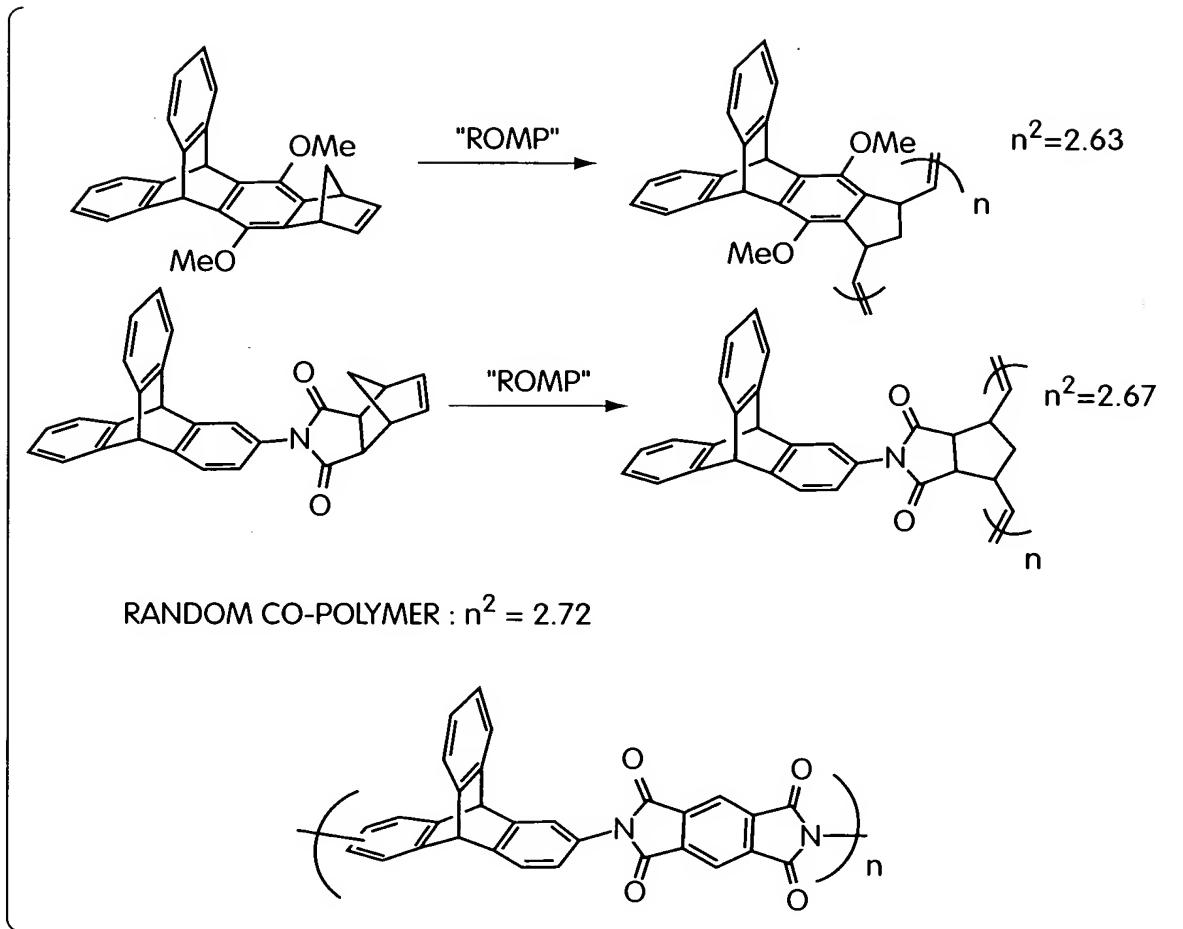


Fig. 2E

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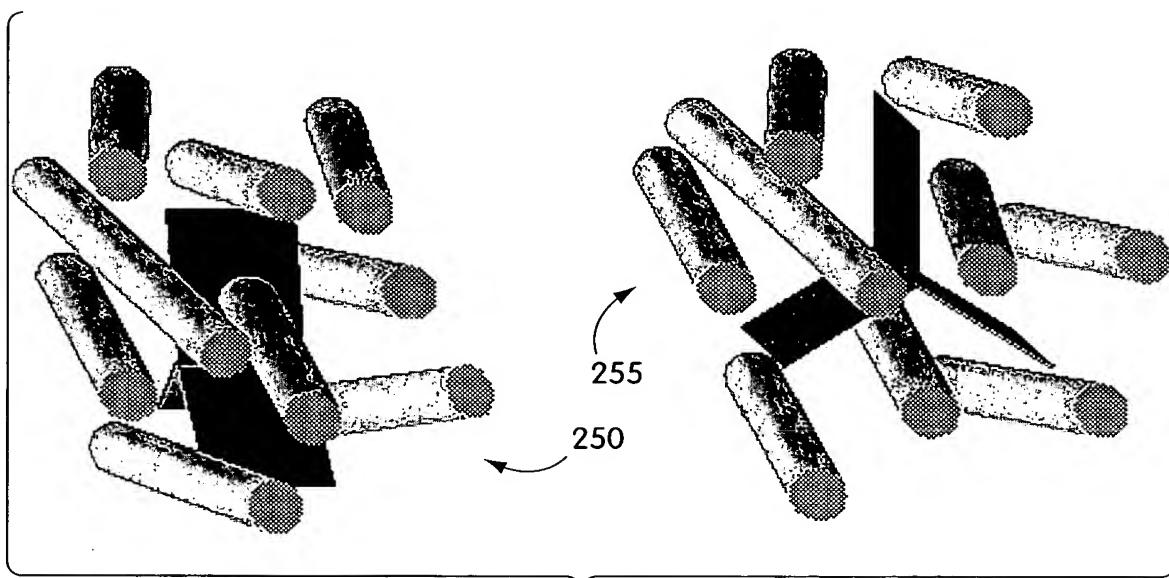


Fig. 3

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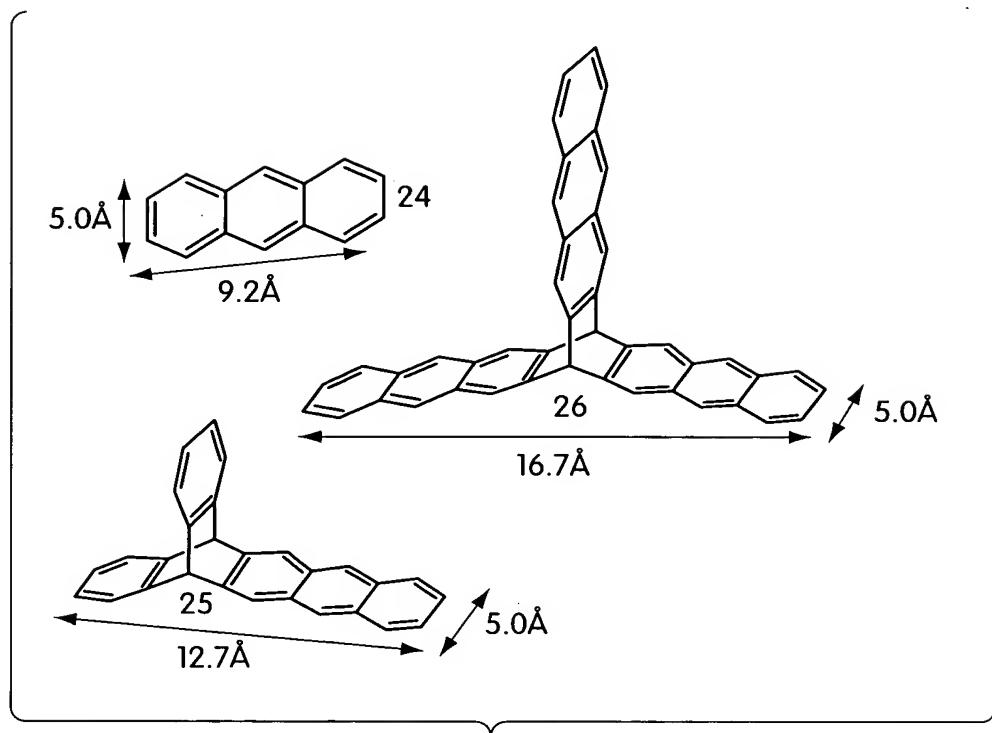


Fig. 4

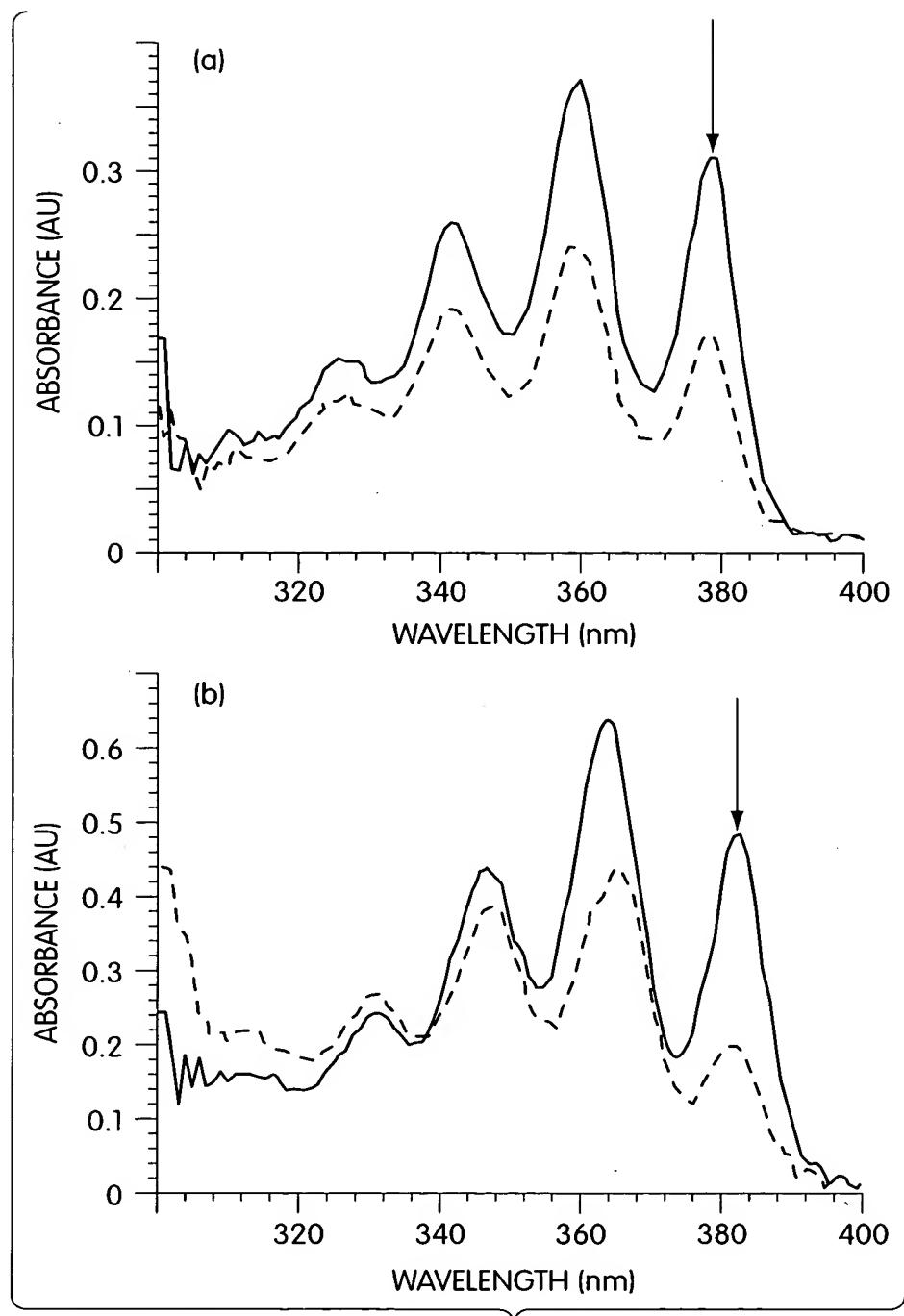


Fig. 5

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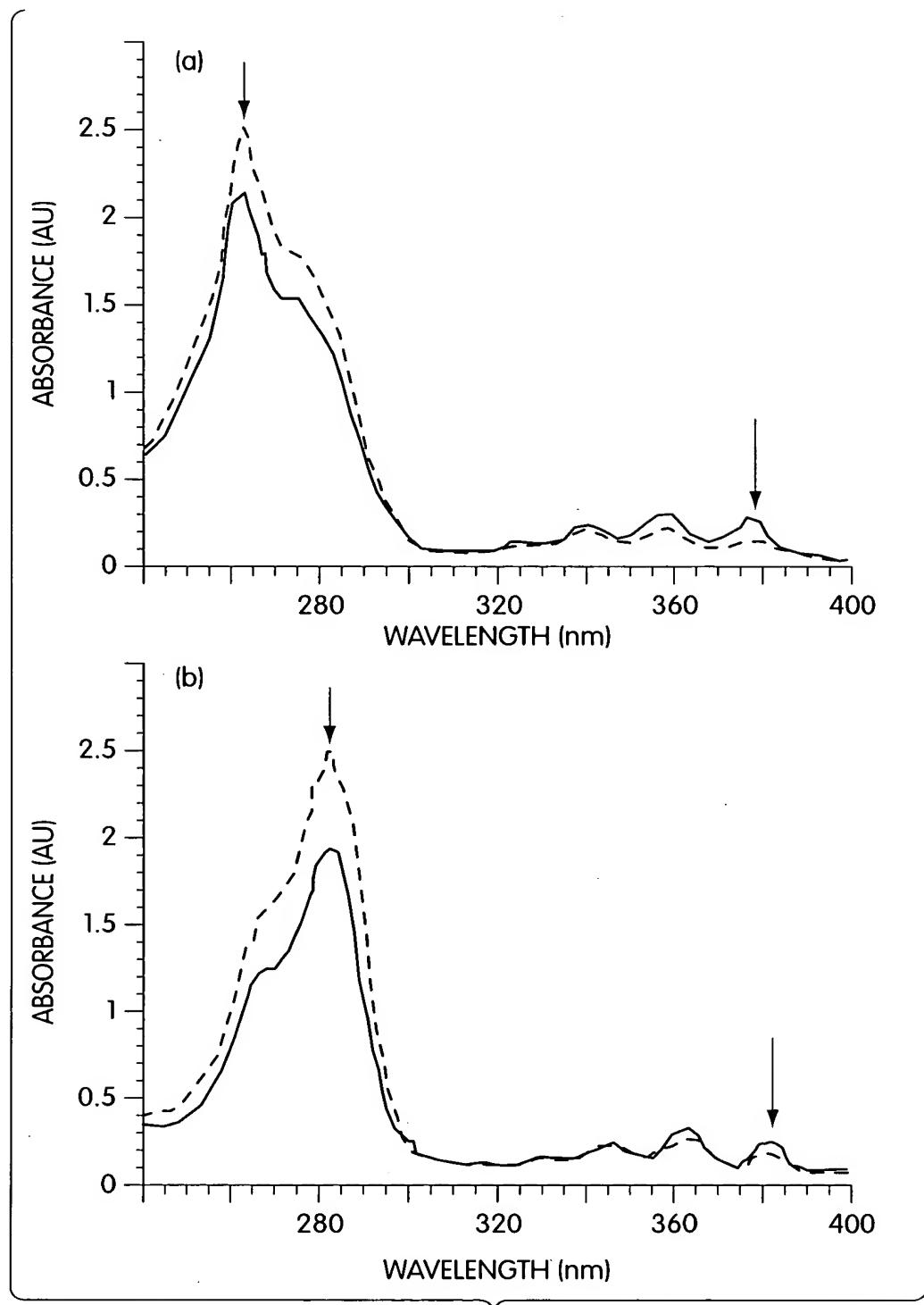


Fig. 6

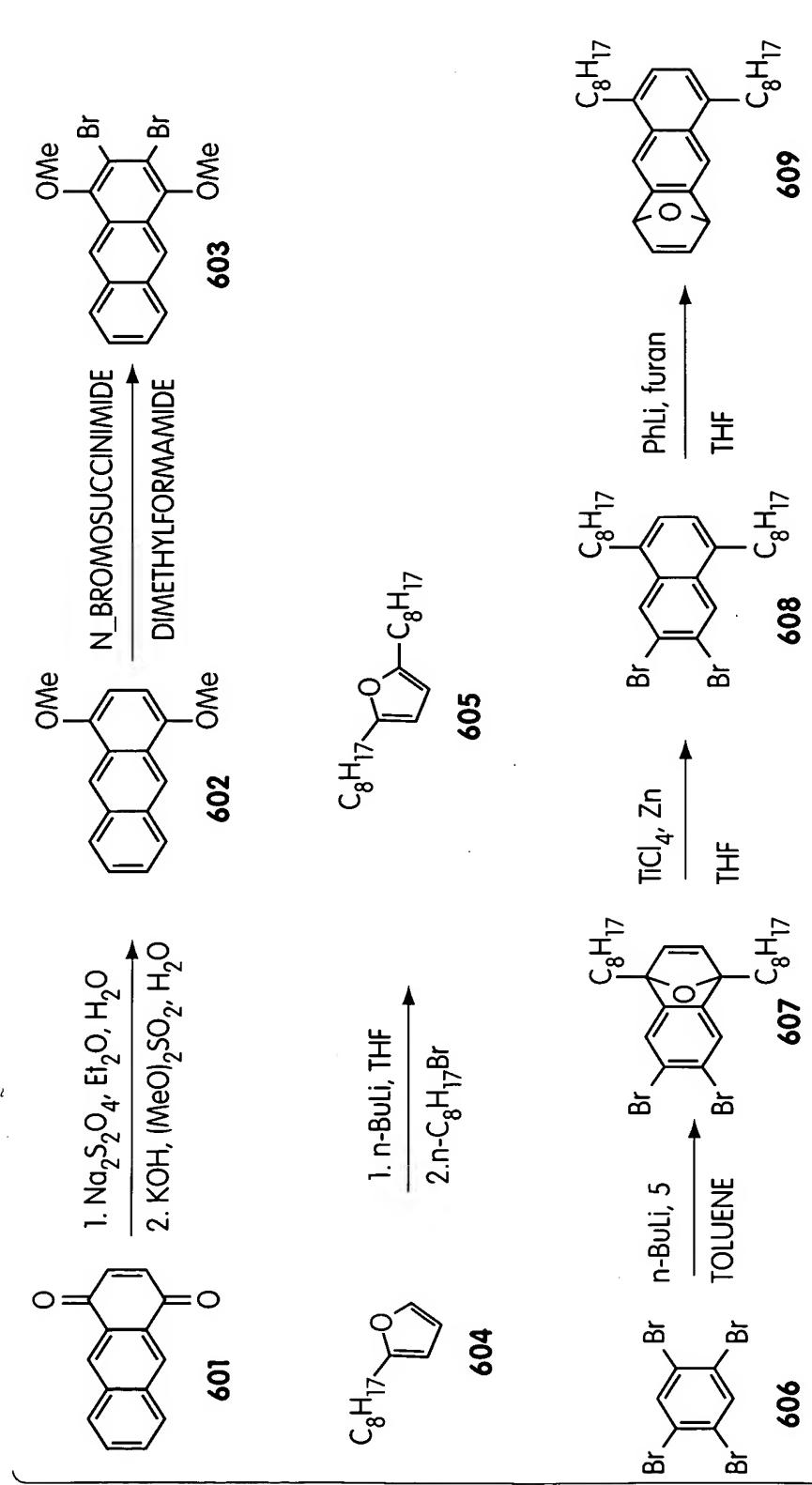


Fig. 6A

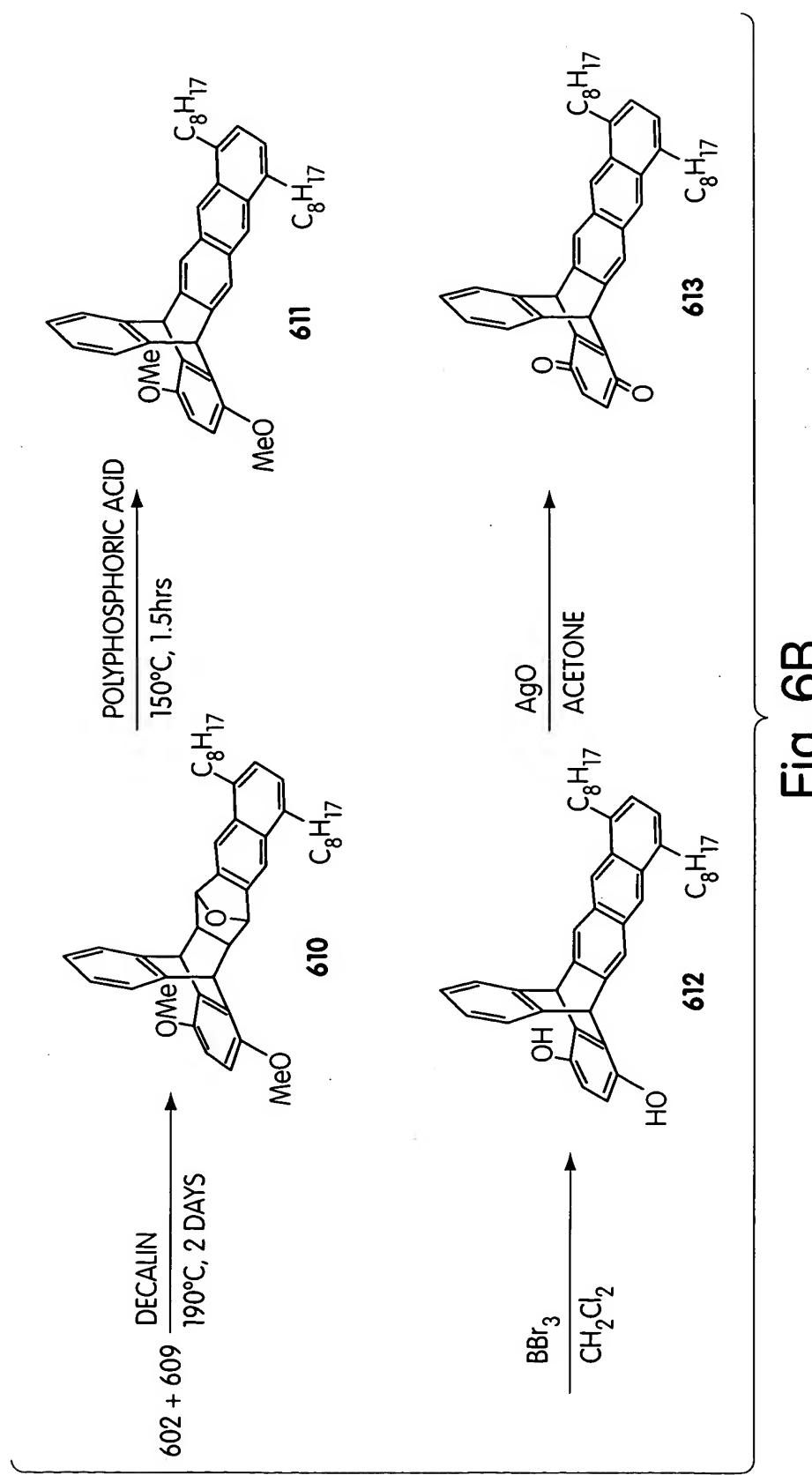


Fig. 6B

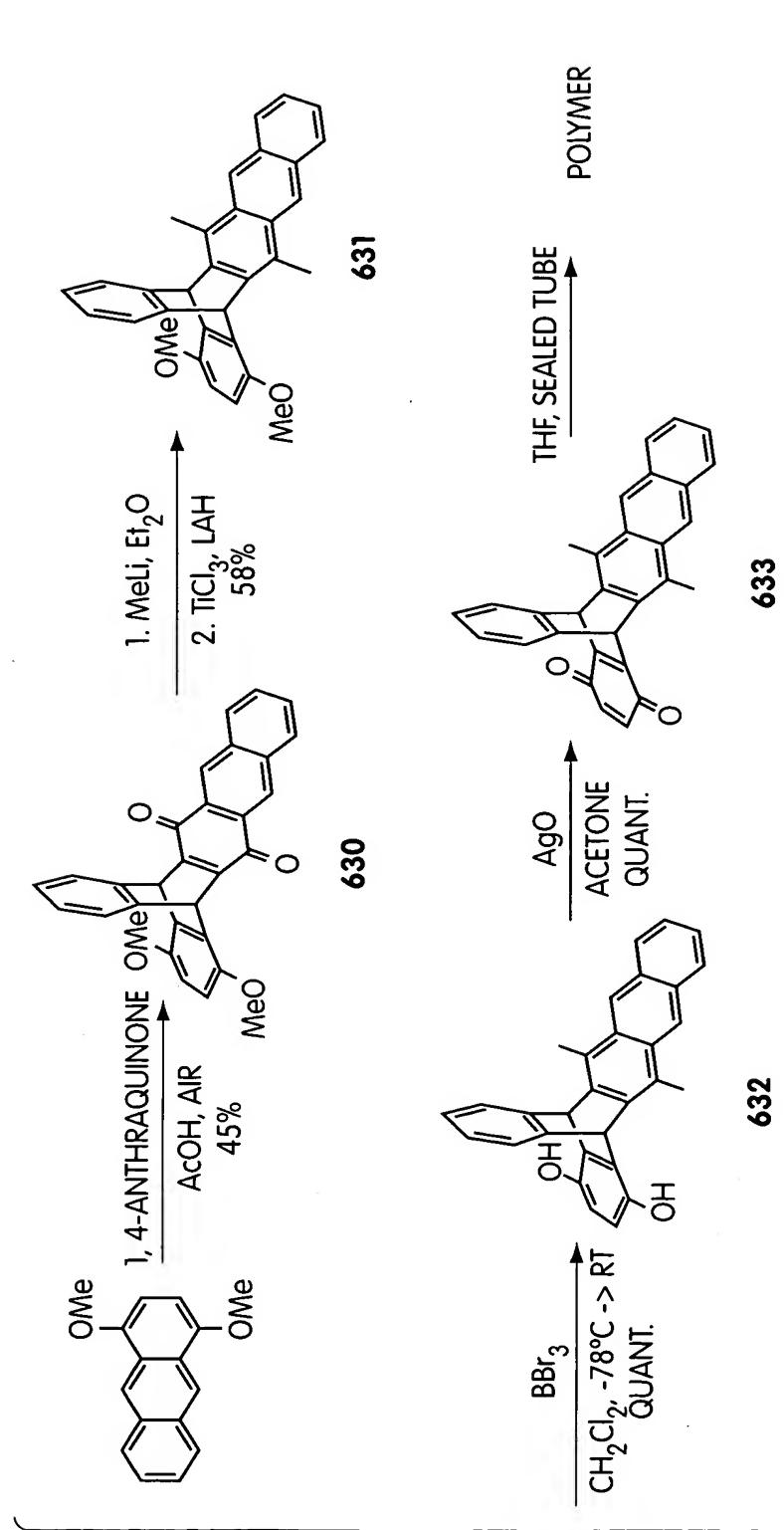


Fig. 6C

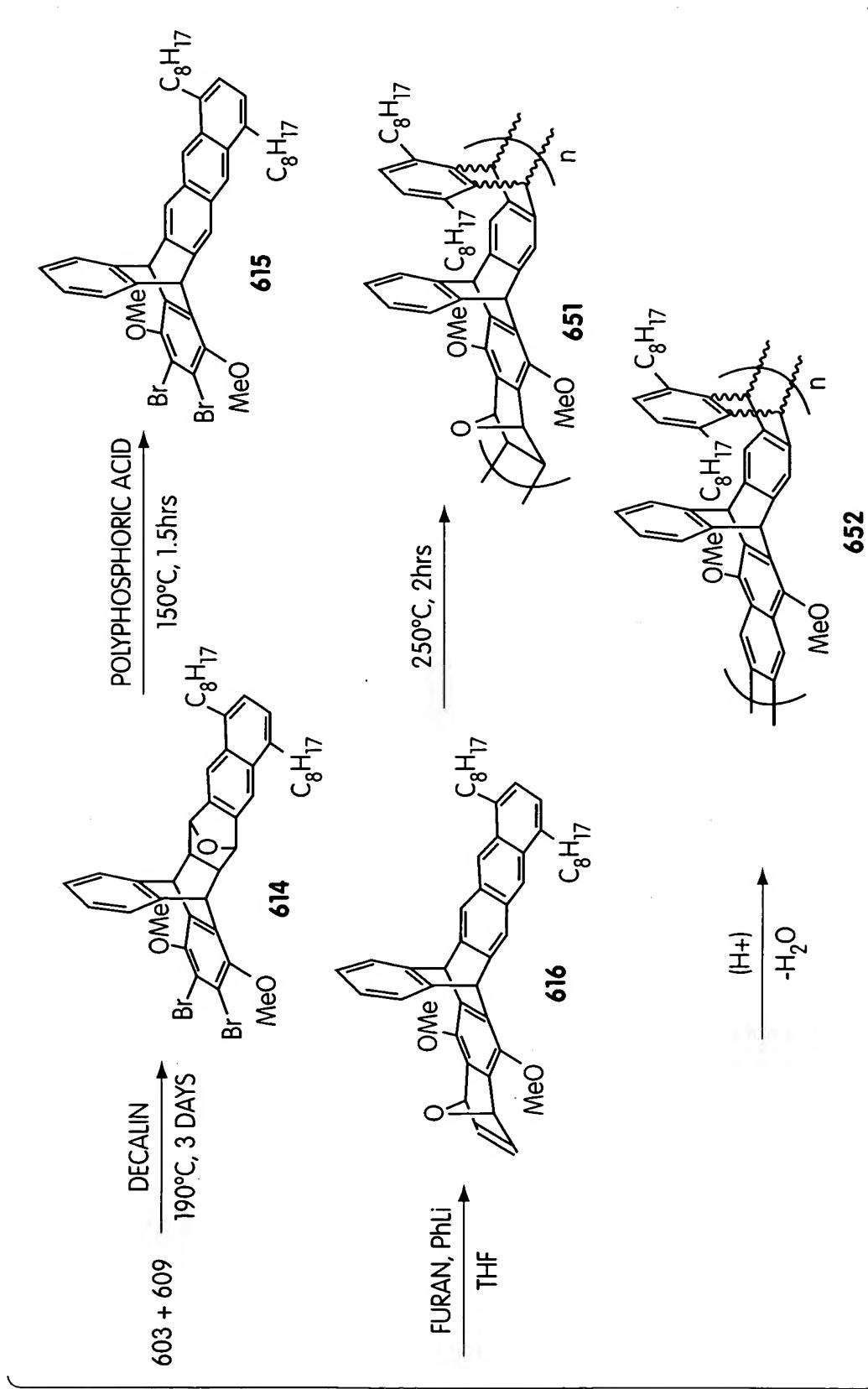
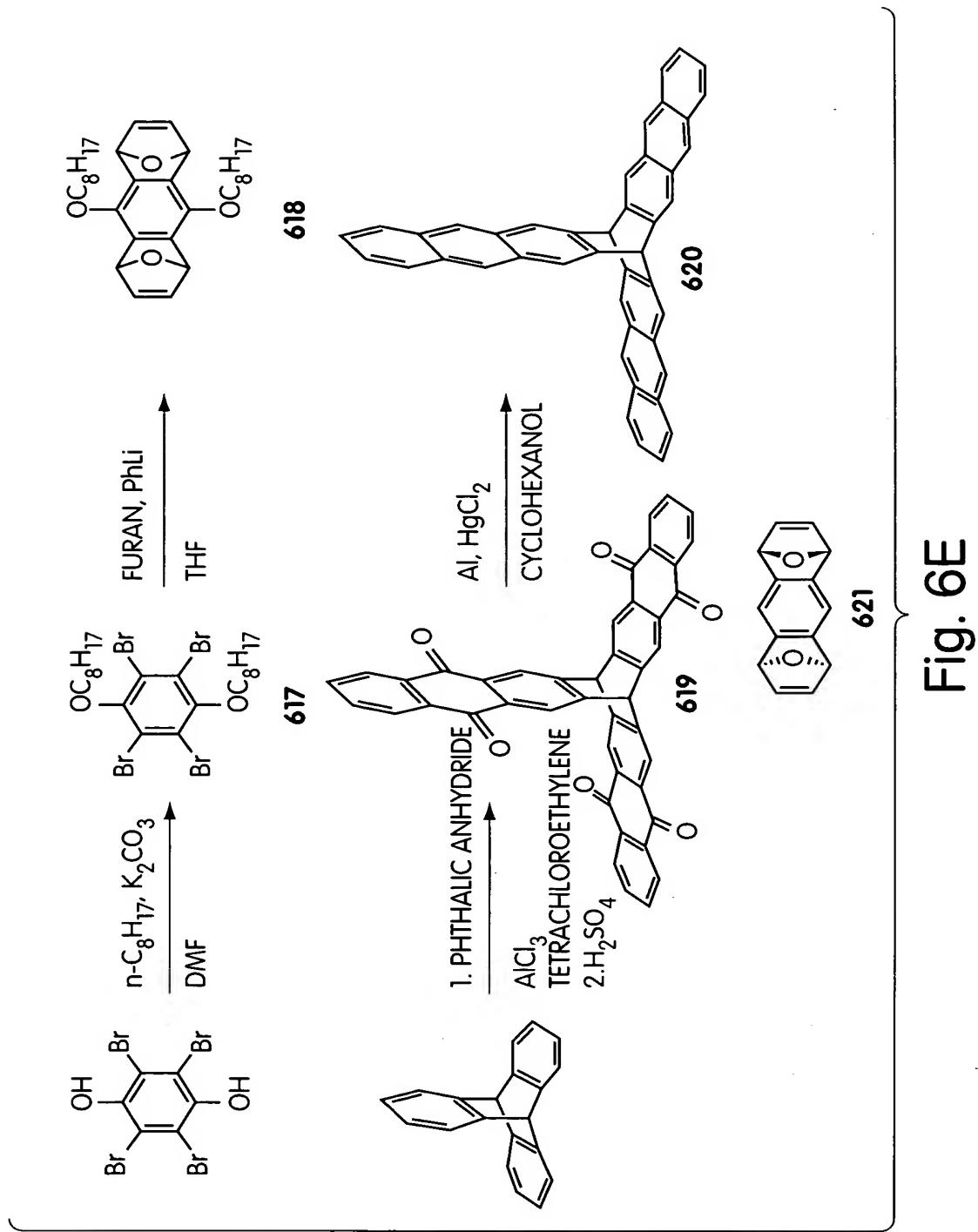


Fig. 6D



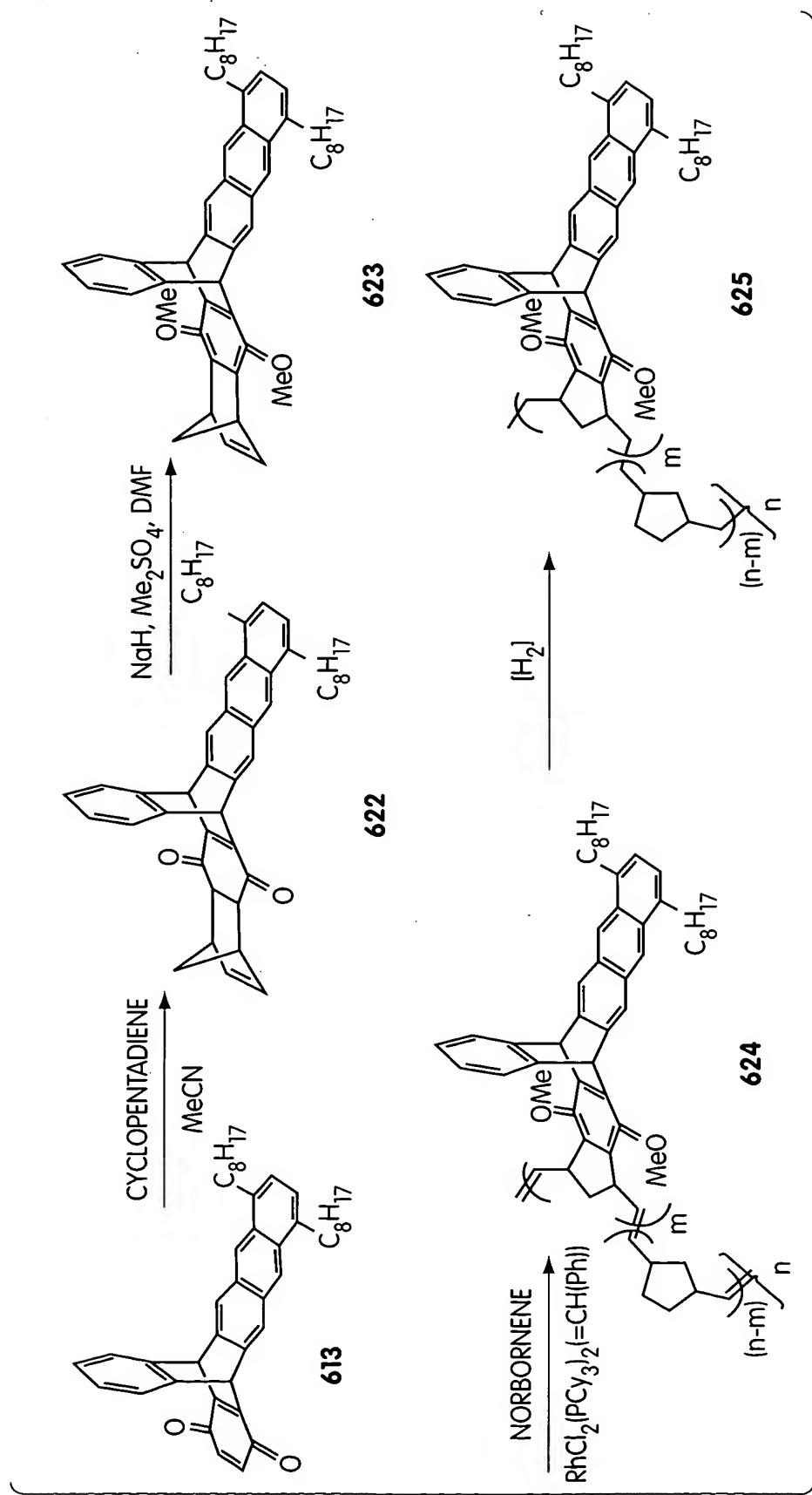


Fig. 6F

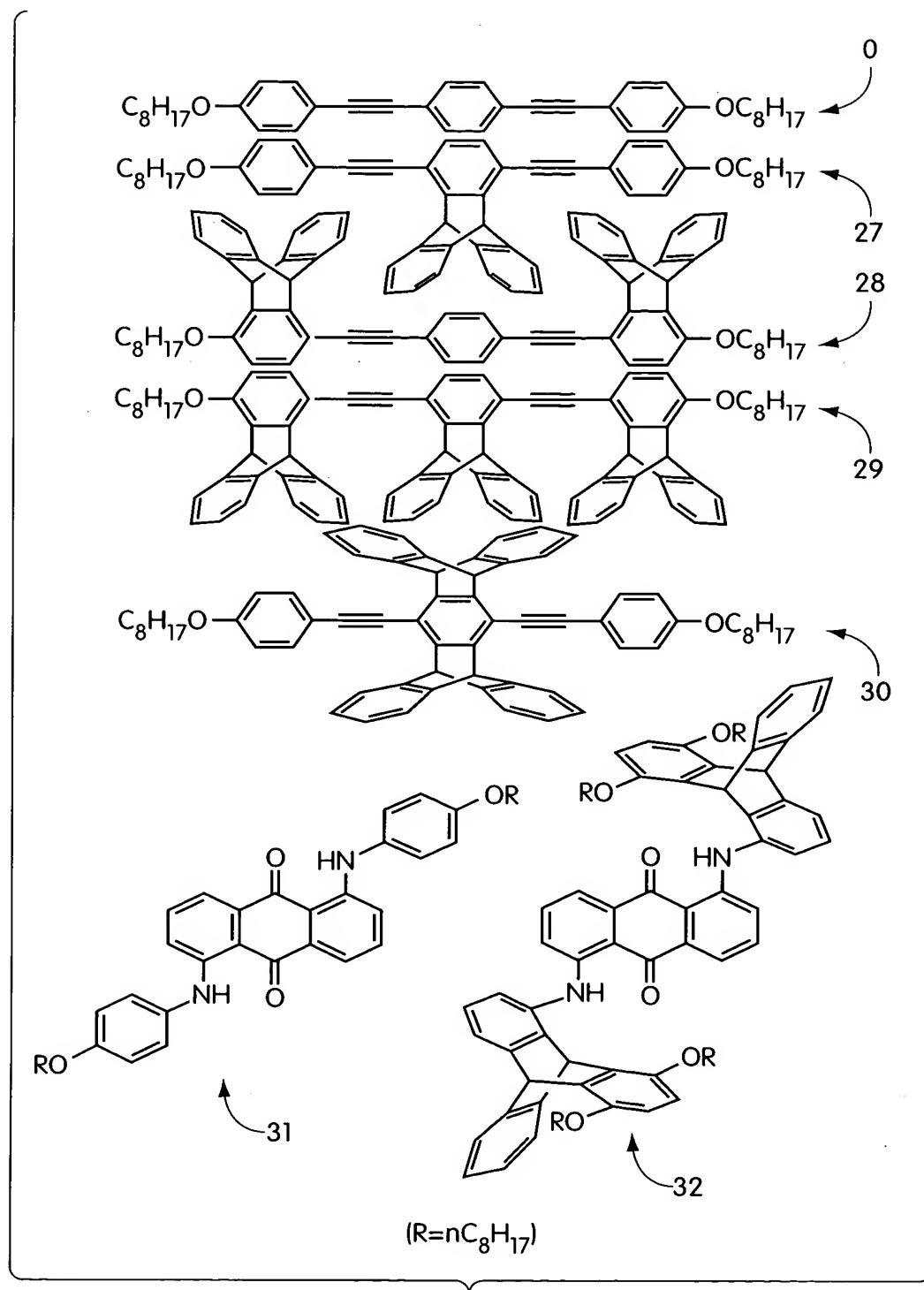


Fig. 7

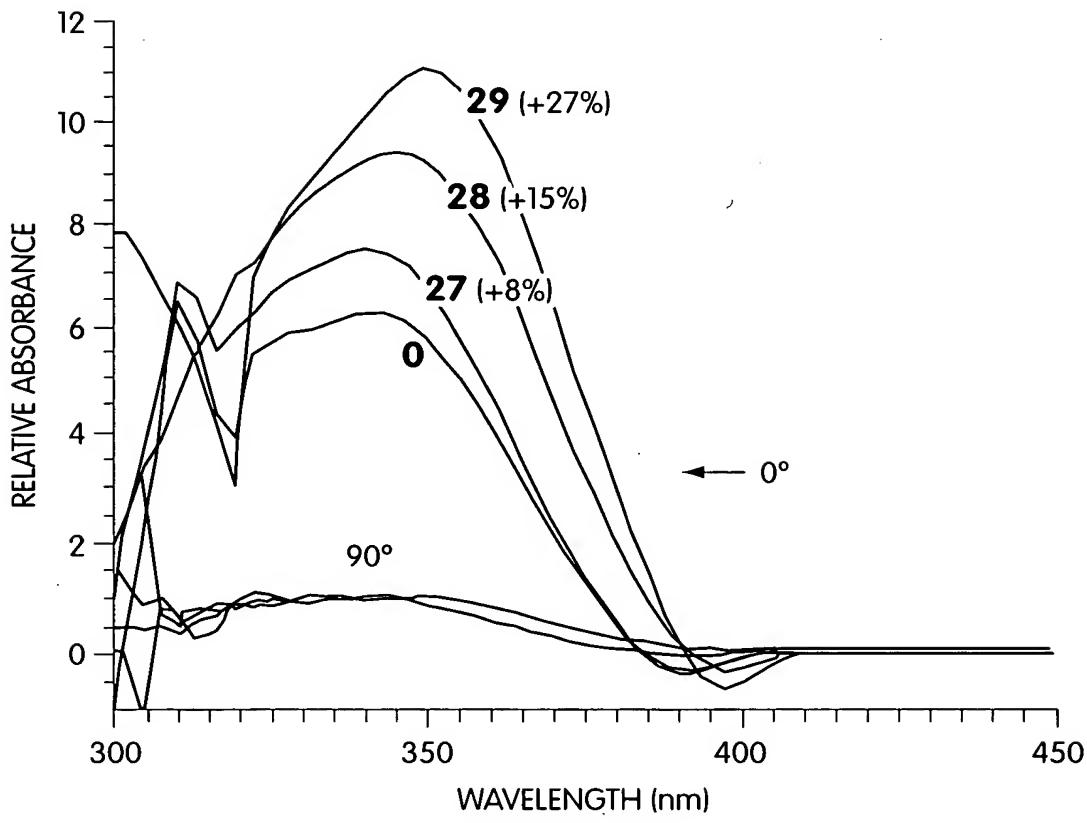


Fig. 8

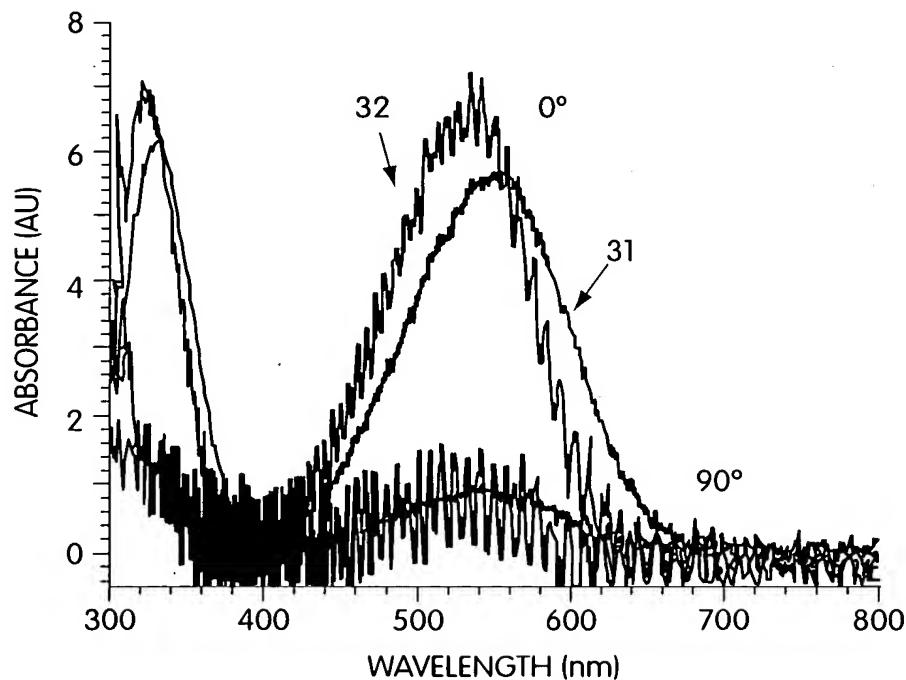


Fig. 9

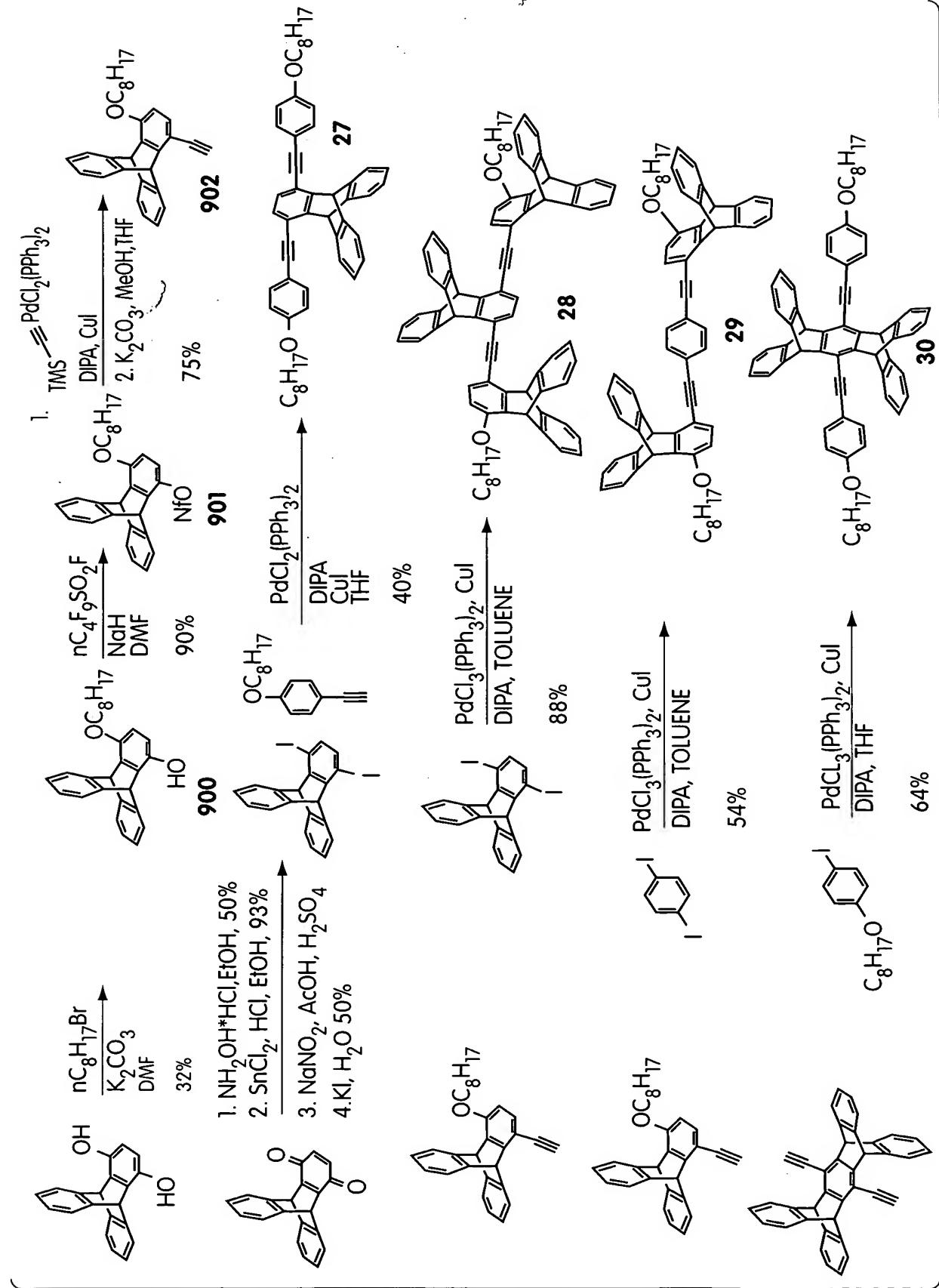


Fig. 9A

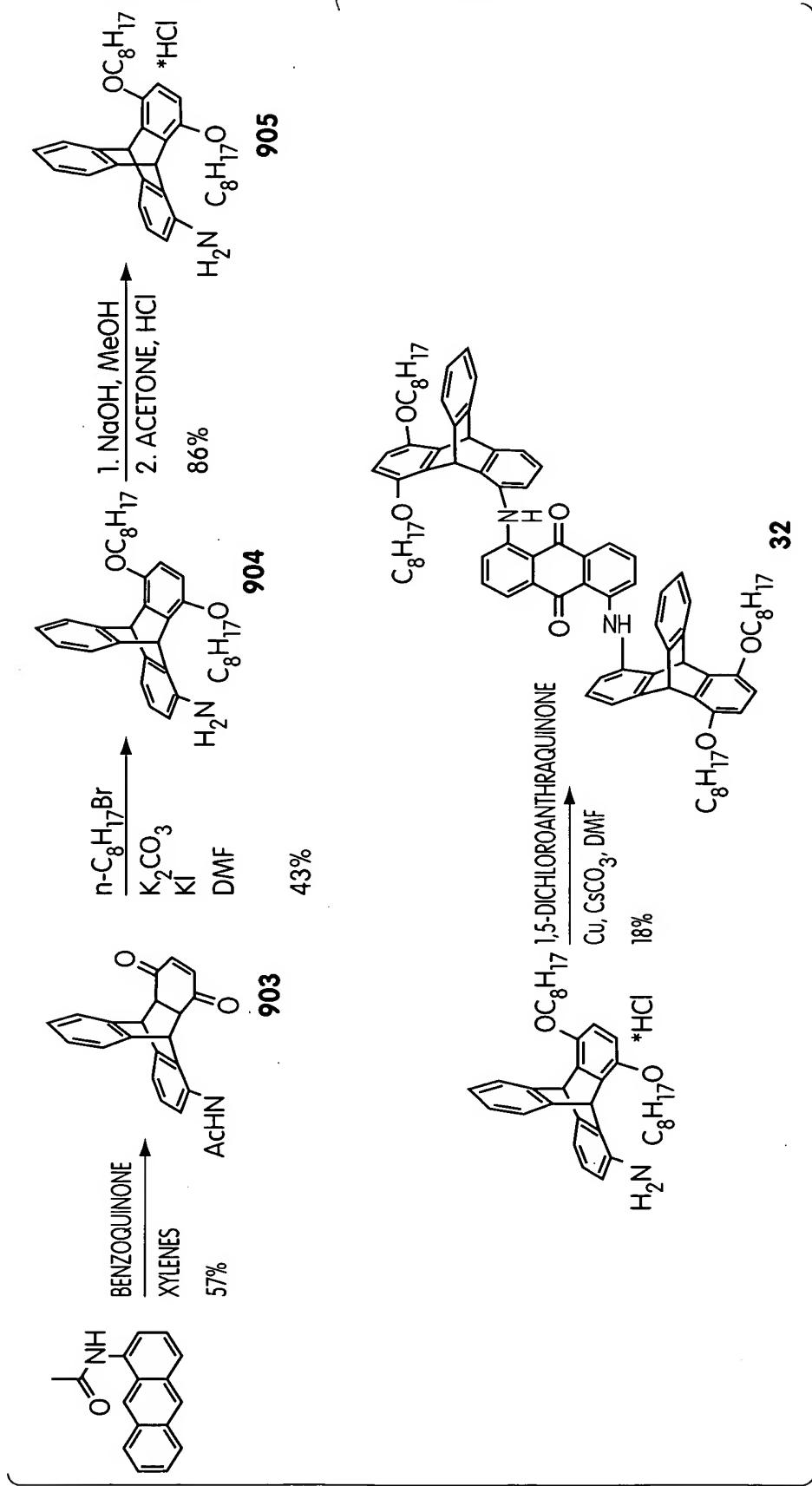


Fig. 9B

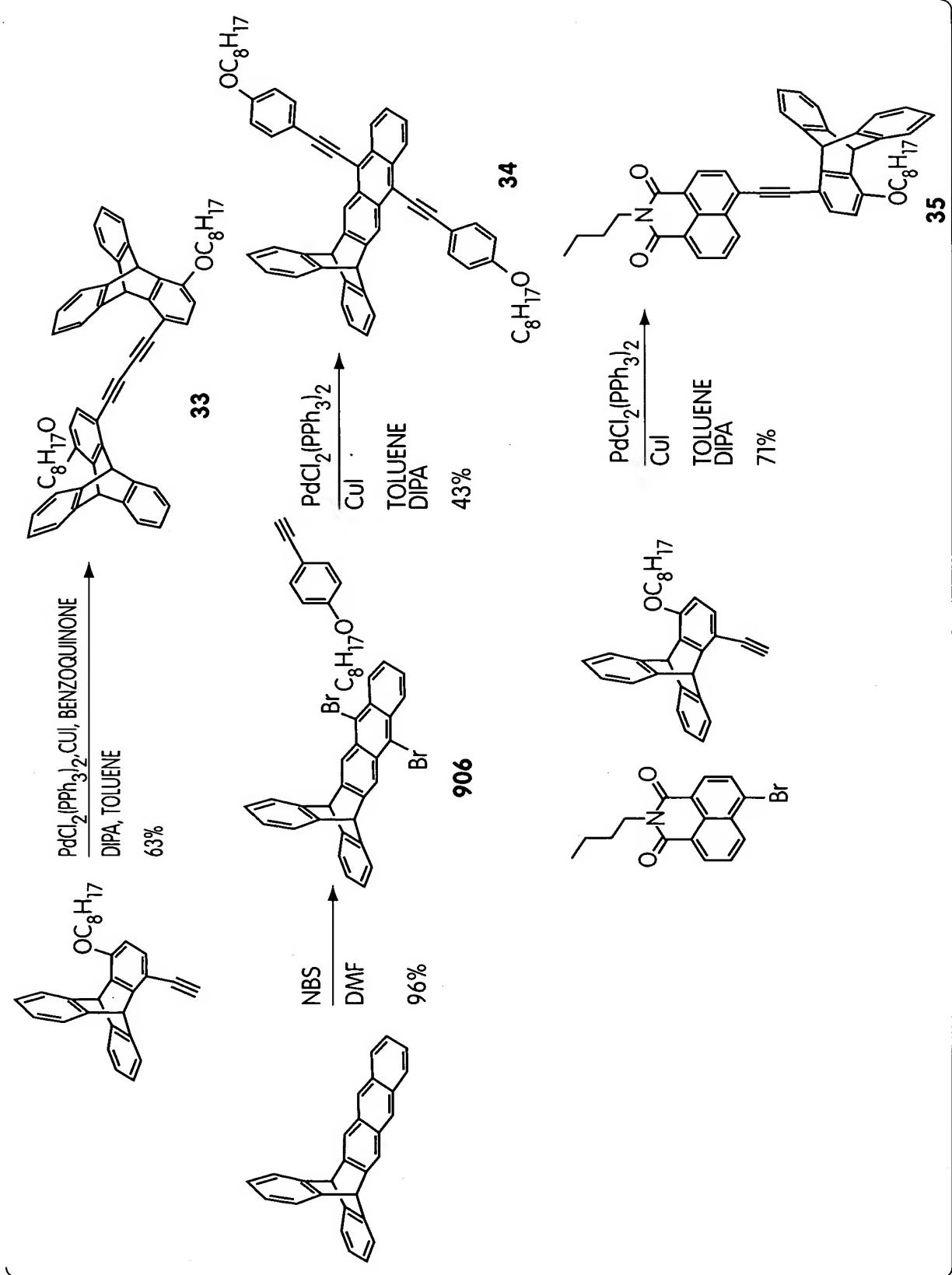


Fig. 9C

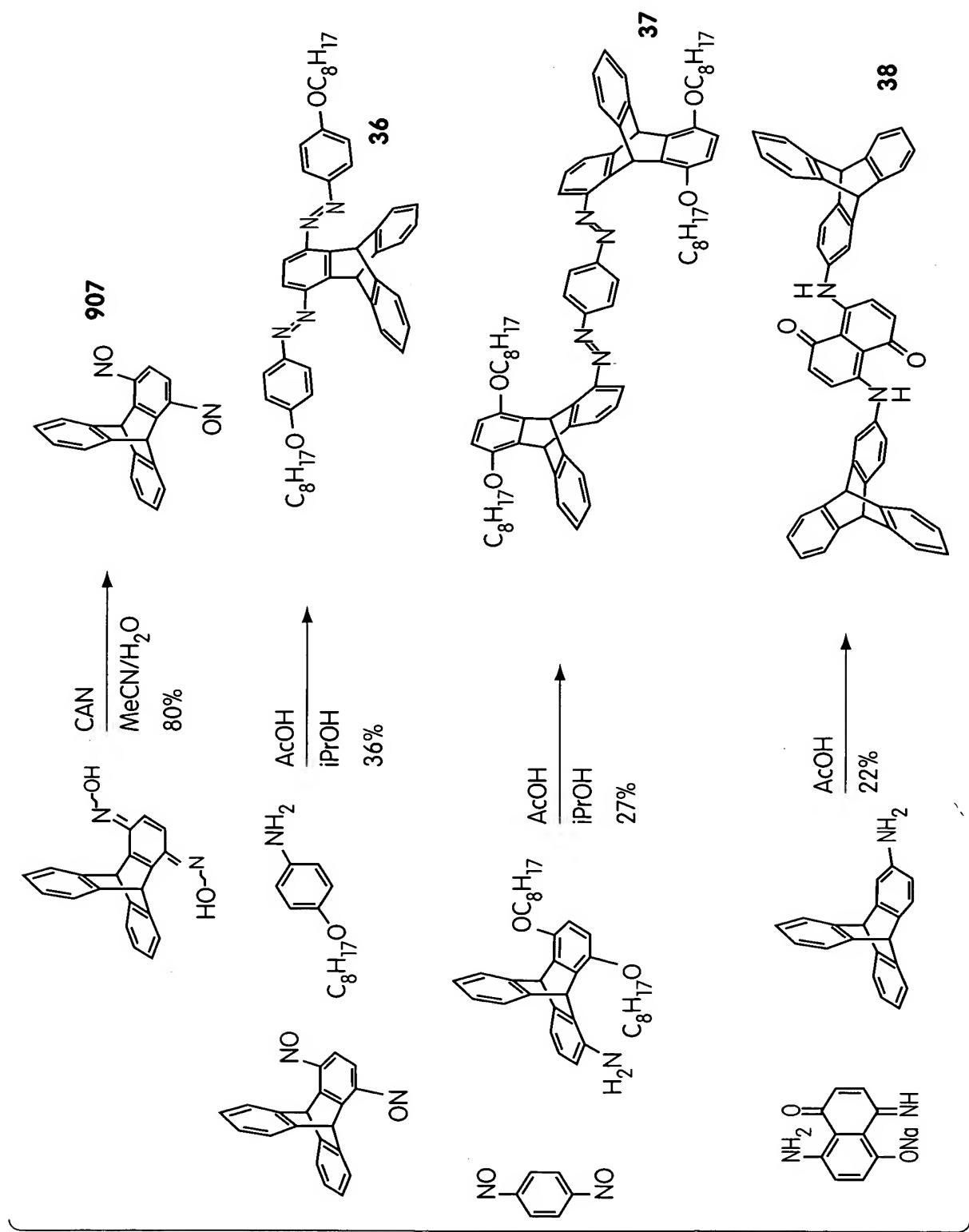


Fig. 9D

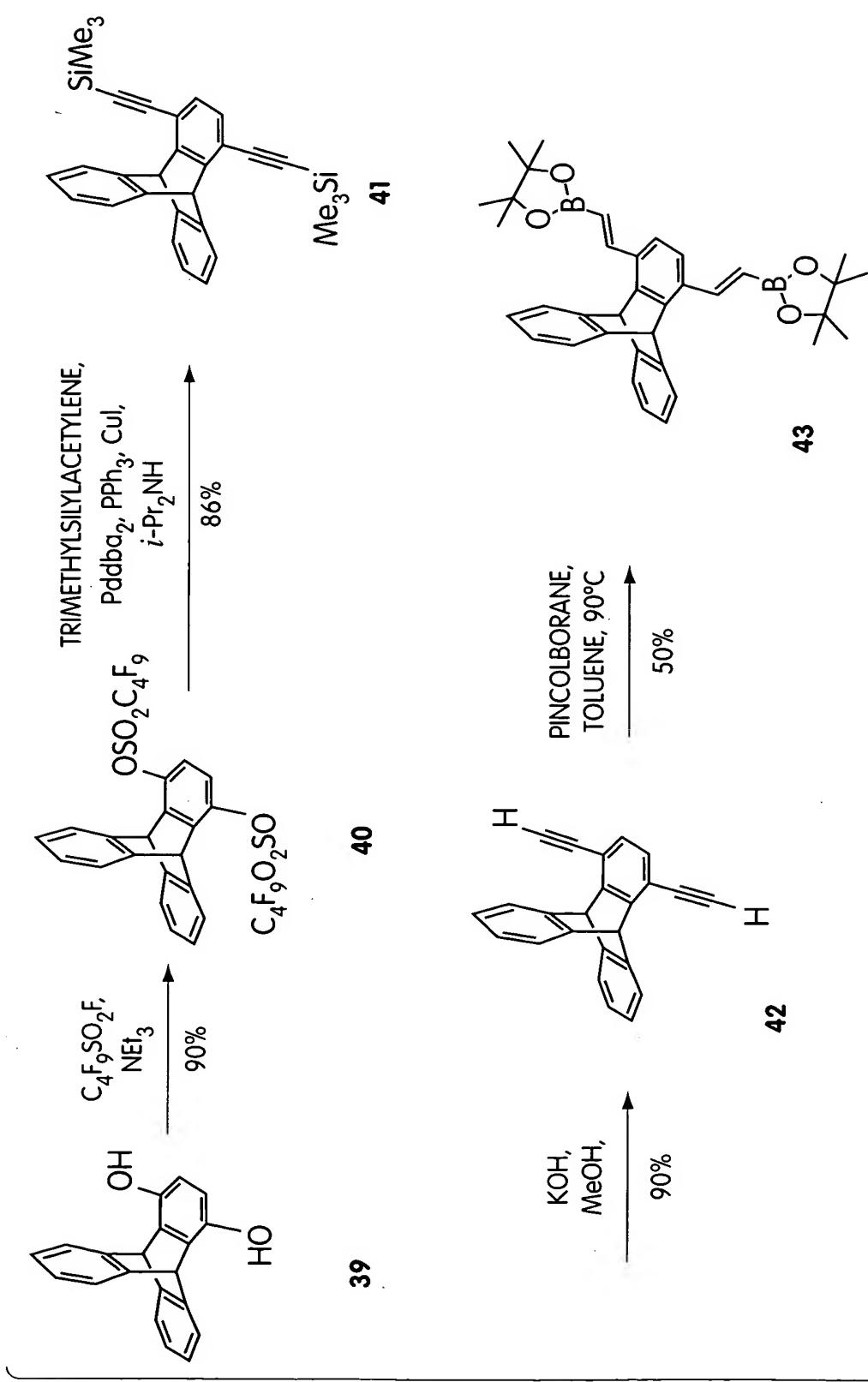


Fig. 9E

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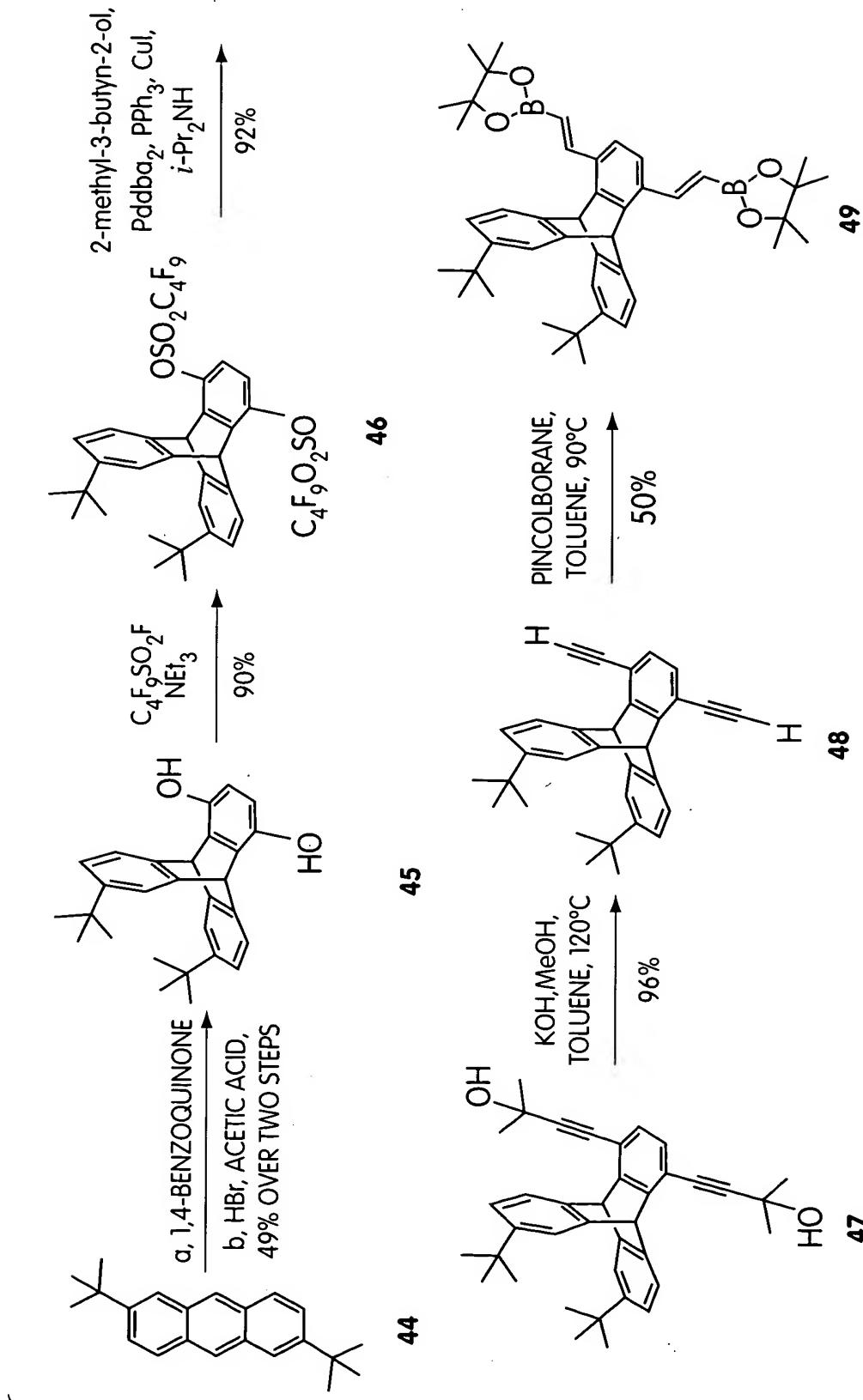


Fig. 9F

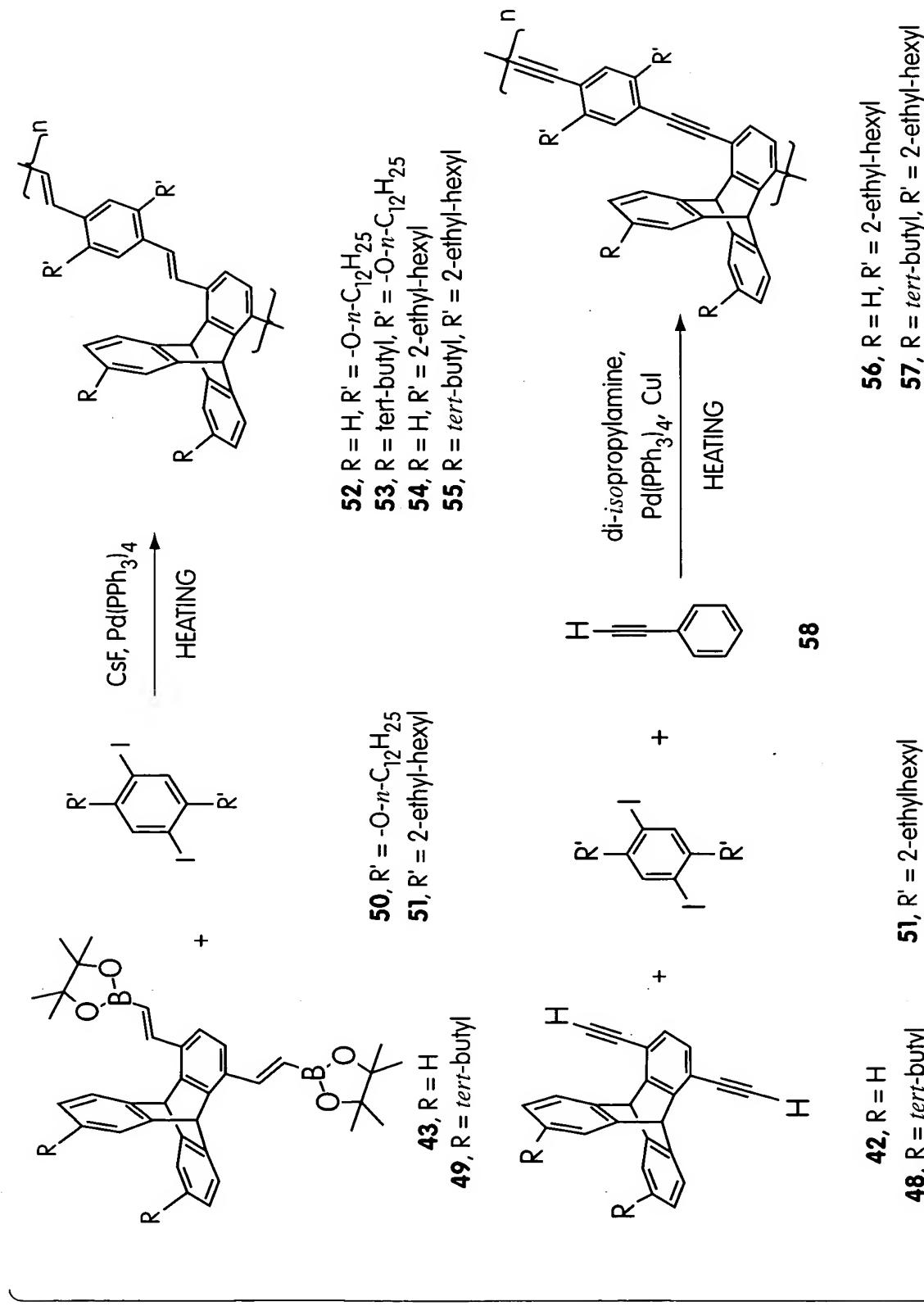


Fig. 9G

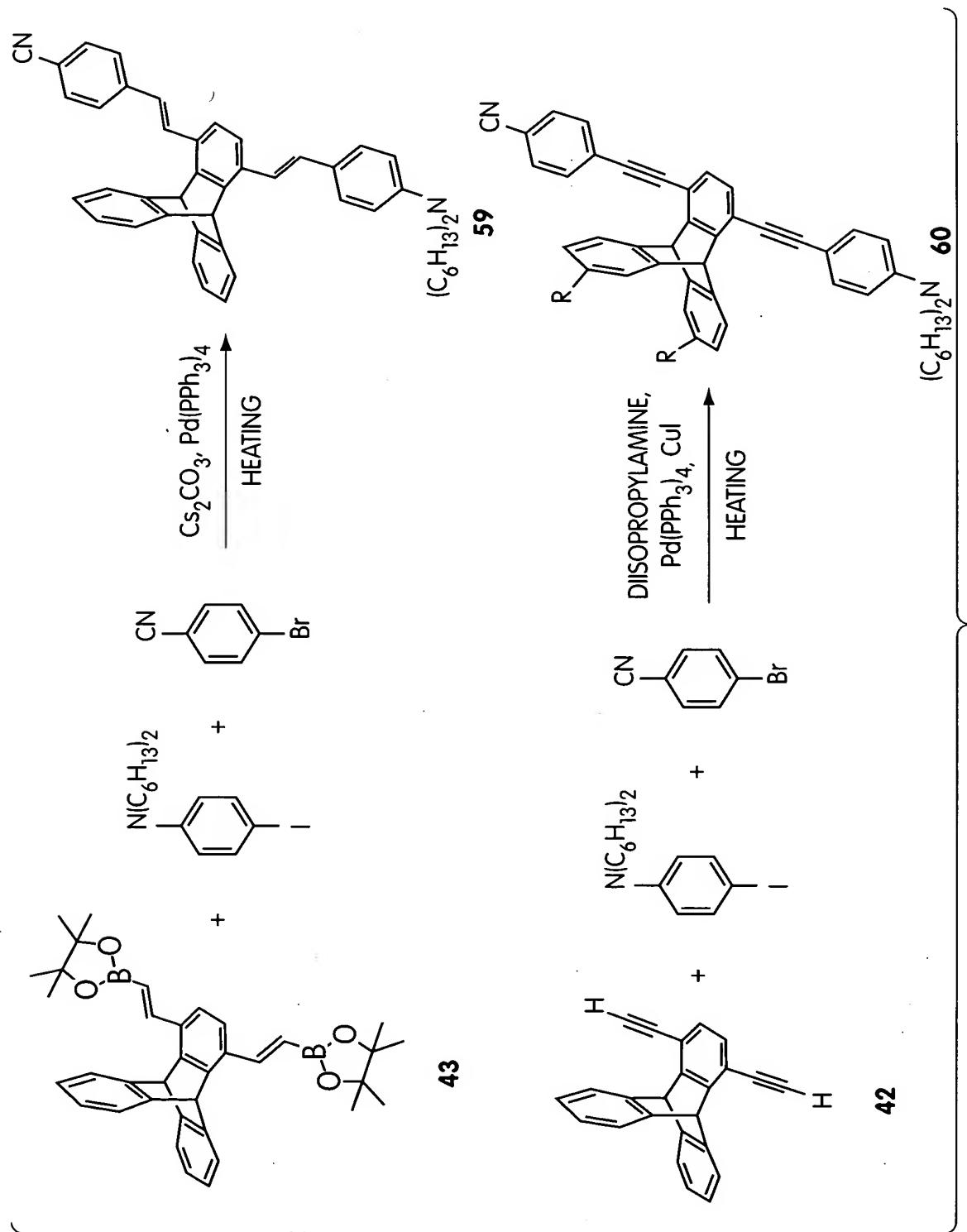


Fig. 9H

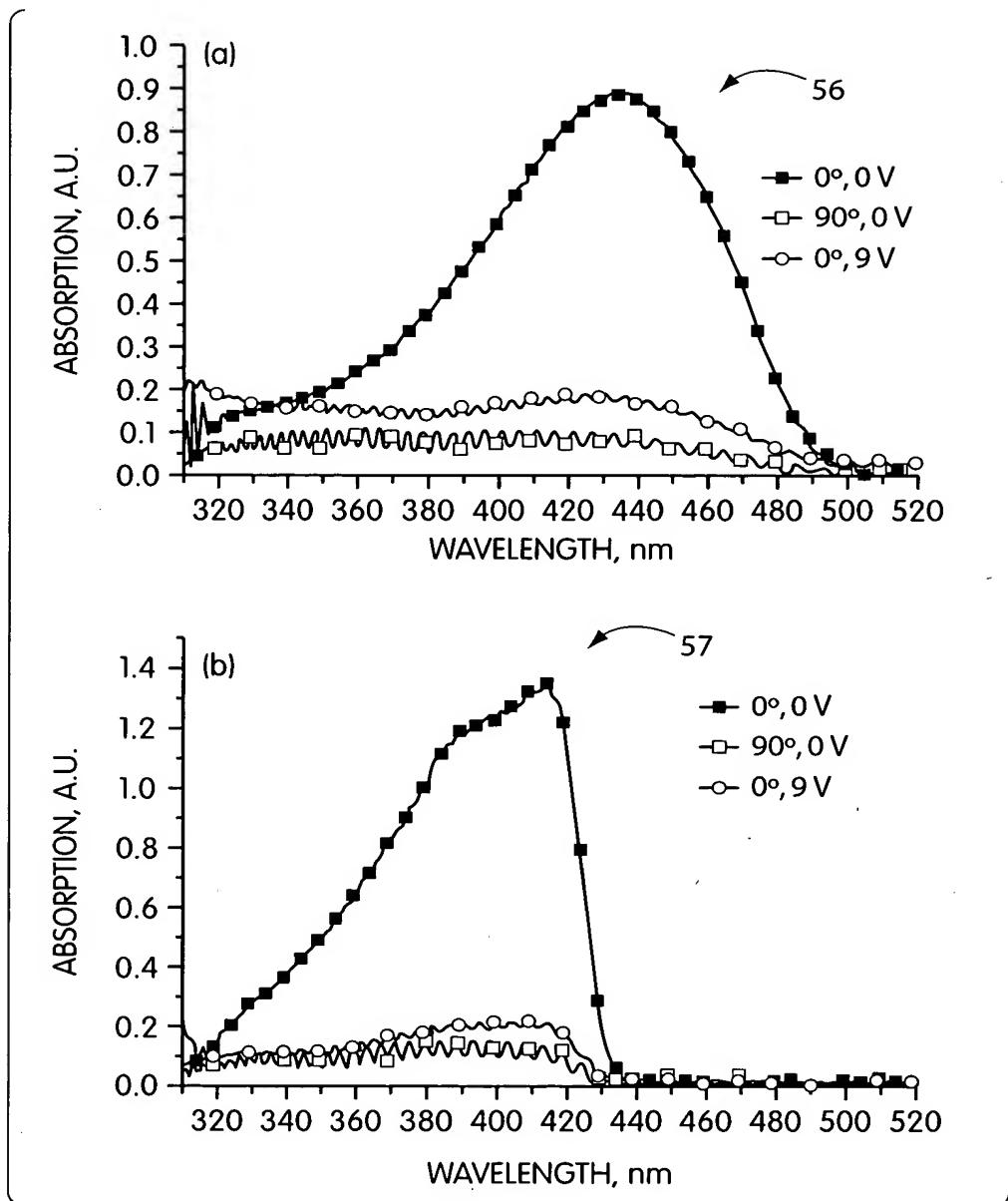


Fig. 10

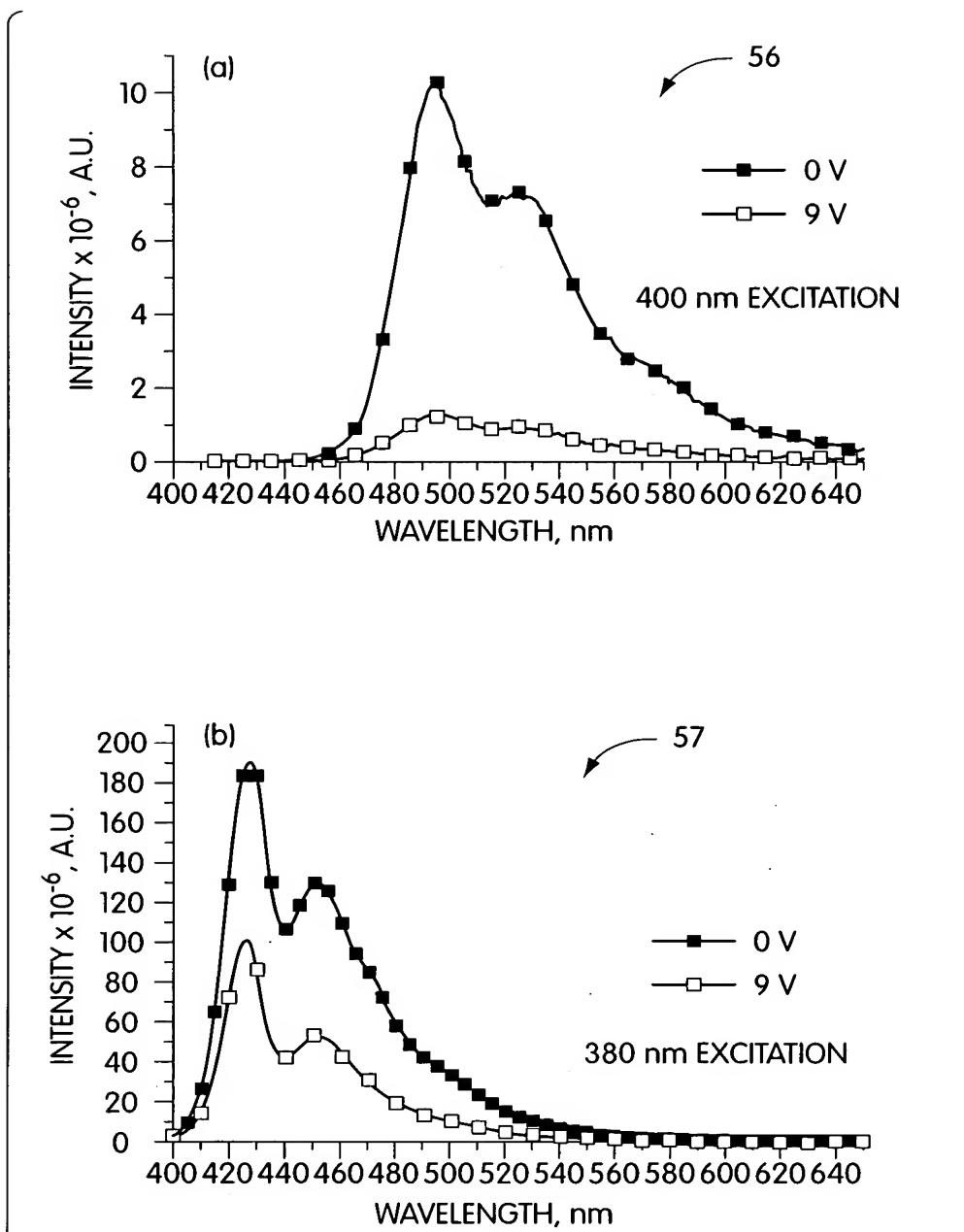


Fig. 11